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Mark R. Vickery, P.G., *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

March 9, 2011

TO: Persons on the attached mailing list.

RE: Uranium Energy Corp

TCEQ Docket Nos. 2008-1888-UIC and 2009-1319-UIC

SOAH Docket Nos. 582-09-3064 and 582-09-6184

Permit Nos. UR03075 and UR03075PAA1

Decision of the Commission on Application.

The Texas Commission on Environmental Quality ("TCEQ" or "Commission") has made a decision to grant the above-referenced applications. Enclosed with this letter is a copy of the Commission's order and draft copies of the permit, Aquifer Exemption Order, and Production Area Authorization. Unless a Motion for Rehearing ("MFR" or "motion") is timely filed with the chief clerk, as described below, this action of the Commission will become final. A MFR is a request for the Commission to review its decision on these matters. Any motion must explain why the Commission should review the decision.

Deadline for Filing Motion for Rehearing.

A MFR must be received by the chief clerk's office no later than 20 days after the date a person is notified of the Commission's order on these applications. A person is presumed to have been notified on the third day after the date that this order is mailed.

Motions may be filed in accordance with the requirements in 30 Texas Administrative Code § 80.272 and Texas Government Code § 2001.146 with the chief clerk electronically at <http://www10.tceq.state.tx.us/epic/efilings/> or by filing an original and 7 copies with the Chief Clerk at the following address:

LaDonna Castañuela, Chief Clerk
TCEQ, MC-105
P.O. Box 13087
Austin, Texas 78711-3087
Fax: 512/239-3311

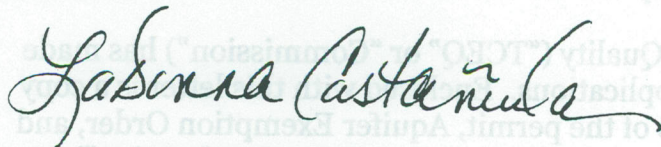
In addition, a copy of the motion must be sent on the same day to each of the individuals on the attached mailing list as indicated by an asterisk (*). A certificate of service stating that copies of the motion were sent to those on the mailing list must also be sent to the chief clerk. The procedures for filing and serving motions for rehearing and responses are located in 30 Texas Administrative Code (TAC) §80.272 and 30 TAC §1.10-1.11. The hardcopy filing requirement is waived by the General Counsel pursuant to 30 TAC §1.10(h).

The written motion must contain (1) the name and representative capacity of the person filing the motion; (2) the style and official docket number assigned by SOAH or official docket number assigned by the Commission; (3) the date of the order; and (4) a concise statement of each allegation of error.

Unless the time for the Commission to act on the motion is extended, the MFR is overruled by operation of law 45 days after a person is notified of the Commission's order on the application. If the Commission does not receive a motion for rehearing, the permit, Aquifer Exemption Order, and Production Area Authorization will be issued and forwarded to appropriate parties.

If you have any questions or need additional information about the procedures described in this letter, please call the Office of Public Assistance toll free at 1-800-687-4040.

Sincerely,



LaDonna Castañuela
Chief Clerk

LDC/ms

Enclosure

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HIGHLIGHTS
"EXPLANATION OF
CHANGES"

Uranium Energy Corp
TCEQ Docket Nos. 2008-1888-UIC and 2009-1319-UIC
SOAH Docket Nos. 582-09-3064 and 582-09-6184

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* The Honorable Richard R. Wilfong
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* Courtesy Copy via e-Filing

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722 CAMP COLET RD
GOLIAD TX 77963-3799

HILL , DORIS & WILLIAM V
3208 BENT BOW DR
SAN ANTONIO TX 78209-3518

HILL JR , WILLIAM V
3208 BENT BOW DR
SAN ANTONIO TX 78209-3518

HINMAN , MICHELE & ROBERT
PO BOX 354
GOLIAD TX 77963-0354

HOBLIT , KAREN & RANDALL
1768 BERGER RD
GOLIAD TX 77963-3437

HOBLIT , KAREN
1768 BERGER RD
GOLIAD TX 77963-3437

HOCH , MARY
5818 TANGLEWOOD DR
CORPUS CHRISTI TX 78412-4544

HOFFMAN , DONNA
1500 GREGORY ST
AUSTIN TX 78702-2732

HOFFMAN , DONNA
SIERRA CLUB - LONE STAR
1202 SAN ANTONIO ST
AUSTIN TX 78701-1834

HOLY , ROBIN M
502 CLAY DR
VICTORIA TX 77904-1382

HORNSBY , KAY
73 SANDCASTLE DR
PORT LAVACA TX 77979-5782

HORNSTEIN , MR & MRS MARVIN
1417 FM 622
VICTORIA TX 77905-3110

HOUCK , JARON D
PO BOX 1391
GOLIAD TX 77963-1391

HUFF , LOIS
5818 SAINT ANDREWS DR
CORPUS CHRISTI TX 78413-3719

HUGHES , CHARLOTTE
526 NOLL RD
MEYERSVILLE TX 77974-3965

HUGHES , PETER
526 NOLL RD
MEYERSVILLE TX 77974-3965

IRWIN JR, GEORGIA & RAULIE L
3148 W FM 884
YORKTOWN TX 78164-5306

IRWIN , GEORGIA ANNE
3148 W FM 884
YORKTOWN TX 78164-5306

IRWIN , RAULIE
PO BOX 562
GOLIAD TX 77963-0562

IRWIN JR , RAULIE L
3148 W FM 884
YORKTOWN TX 78164-5306

IZUMI , KENNETH
APT 1706
8602 CINNAMON CREEK DR
SAN ANTONIO TX 78240-5812

JACKSON , KATHLEEN
PO BOX 1
FANNIN TX 77960-0001

JACOB , BETTY & JOE
312 N CHURCH ST
GOLIAD TX 77963-3943

JACOB , DON H
7864 E FM 1961
GOLIAD TX 77963-3401

JACOBS , MONICA
KELLY HART & HALLMAN LLP
STE 2000
301 CONGRESS AVE
AUSTIN TX 78701-2961

JENKINS , CARL & DONNA L
580 WHEELER LN
GOLIAD TX 77963-3640

JOHNSTON , MILDRED
2904 KIPLING ST
VICTORIA TX 77901-7621

KARNOWSKI , HENRY & PEGGY
205 CANTERBURY LN
VICTORIA TX 77904-1781

KELLMAN , STEVEN G
302 FAWN DR
SHAVANO PARK TX 78231-1519

KERSEY , BETTY
PO BOX 32
GOLIAD TX 77963-0032

KERSEY , WILLIAM
PO BOX 32
GOLIAD TX 77963-0032

KEY , MARILYN & W WAYNE
1737 ALBRECHT RD
GOLIAD TX 77963-3432

KEY , WAYNE
1737 ALBRECHT RD
GOLIAD TX 77963-3432

KLINKERMAN , KIRK PE
2561 BAECKER RD
GOLIAD TX 77963-3483

KLOTZMAN , MELVIN
PO BOX 3723
VICTORIA TX 77903-3723

KORNFUEHRER , BARBARA & GAYLON
12922 GOLDEN RAINBOW DR
CYPRESS TX 77429-3804

KRENECK , JANET
6999 OLD GOLIAD RD
GOLIAD TX 77963-3318

KRENECK , JIM
6999 OLD GOLIAD RD
GOLIAD TX 77963-3318

KRUEGER , MARK
939 NOLL RD
MEYERSVILLE TX 77974-3953

LADNER , JAMES & MARY E
5791 S SH 119
YORKTOWN TX 78164

LANDRESS , JUDY
242 MONTCLAIR DR
CORPUS CHRISTI TX 78412-2703

LANGE , LARRY
7483 N US HIGHWAY 183
GOLIAD TX 77963-3522

LANGE , WILLIAM
107 LAUREL OAK CIR
CUERO TX 77954-2147

LEFTWICH , JOSH
URANIUM ENERGY CORP
STE 900
400 MANN ST
CORPUS CHRISTI TX 78401-2046

LEMESSURIER , PHILIP
STE 703
8700 CROWNHILL BLVD
SAN ANTONIO TX 78209-1136

LEMKE , J W
1029 FM 1351
GOLIAD TX 77963-3705

LENAMON , AUBREY & J AUBREY
237 SANDY LN
VICTORIA TX 77905-3036

LENAMON , JUDY
237 SANDY LN
VICTORIA TX 77905-3036

LESTER , KYLE
1322 COLETOVILLE RD S
VICTORIA TX 77905-3043

LEWIS , PAMELA
11818 MISSION TRACE ST
SAN ANTONIO TX 78230-2122

LEWIS , SANDRA
PO BOX 677
GOLIAD TX 77963-0677

LIGHT , WALTER
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SAN ANTONIO TX 78209-0598

LINZER , J NAOMI
J NAOMI LINZER INDEXING SERVICES
422 STAGES DR
CORPUS CHRISTI TX 78412-2810

LONG , PAM
358 E FM 1961
GOLIAD TX 77963-4404

LONG , TED COMMISSIONER PCT 4
GOLIAD COUNTY
358 E FM 1961
GOLIAD TX 77963-4404

LOVETT , DENISE & PATRICK
5170 DANFORTH RD
GOLIAD TX 77963-3543

LUDE , DOROTHY
271 W FM 884
GOLIAD TX 77963-3304

LULE , MAUREEN
4748 STATE HIGHWAY 119
GOLIAD TX 77963-3326

MANNING , JAN
4791 STATE HIGHWAY 239 W
GOLIAD TX 77963-3850

MARTIN , EDNA
1996 ABRAMEIT RD
GOLIAD TX 77963-3602

MCCRANEY , PATTI
PO BOX 148
GOLIAD TX 77963-0148

MCKINNEY , BELITHA B
"BEA"
962 LEE ALVES RD
YORKTOWN TX 78164-5246

MCKINNEY , BELITHA & MELVIN H
962 LEE ALVES RD
YORKTOWN TX 78164-5246

MCKINNEY , FRANCEY & RICIA
107 TAMPA DR
VICTORIA TX 77904-1654

MCKINNEY , RICKI
107 TAMPA DR
VICTORIA TX 77904-1654

MEYER , MARY
700 WILLOW DR
RICHMOND TX 77469

MEYER , ROBERT W
305 SIMPSON RD
VICTORIA TX 77904-1476

MIKESKA , MR & MRS JASON
14870 N US HIGHWAY 183
YORKTOWN TX 78164-5643

MONTAGUE , WM
3339 FM 622
GOLIAD TX 77963-3748

MONTGOMERY , LOUIS & SHARON
1431 LEMKE RD
GOLIAD TX 77963-3428

MOORE , ANNETTE
179 FRANKE RD
GOLIAD TX 77963-3664

MOORE , JUSTIN
20 STERLING PL
BROOKLYN NY 11217-3204

MOORE , WENDY RESSMANN
20 STERLING PL
BROOKLYN NY 11217-3204

MORGENROTH , BOB
PO BOX 2431
VICTORIA TX 77902-2431

MORRIS , MARILYN & TOM
1883 FOX RD
GOLIAD TX 77963-3416

MOSLEY , DOROTHY J
2150 HENCERLING RD
GOLIAD TX 77963-3449

MOTAL , PAUL D
3315 GALESBURG DR
AUSTIN TX 78745-5811

MULLENIN , MARTHA
CITY OF GOLIAD
PO BOX 1
GOLIAD TX 77963-0001

MULLENIX , MARTHA
TEXAN EXPRESS
PO BOX 1
GOLIAD TX 77963-0001

NEAL , DOROTHY
13747 FM 622
VICTORIA TX 77905-3030

NELSON , LINDA L
166 OLD GOLIAD RD
GOLIAD TX 77963-3330

NEWMAN , KATHY B
8414 TIMBER FAIR
SAN ANTONIO TX 78250-4163

ORMAND , JAMES & ROSALIE
PO BOX 239
WEESATCHE TX 77993-0239

ORMAND , JAMES
PO BOX 239
WEESATCHE TX 77993-0239

ORMAND , ROSALIE TETER
PO BOX 239
WEESATCHE TX 77993-0239

ORR , SUSAN
1742 E FM 1961
GOLIAD TX 77963-3368

ORR , WELDON SCOTT
1742 E FM 1961
GOLIAD TX 77963-3368

OVERLANDER , MARY ANN
3744 OLD GOLIAD RD
GOLIAD TX 77963-3315

OVERLANDER , SHANNON
3746 OLD GOLIAD RD
GOLIAD TX 77963-3315

OWENS, WAYNE
10502 RAFTER S TRL
HELOTES TX 78023-3824

PARKINSON, DONNA
1984 HALLEMANN RD
GOLIAD TX 77963-3352

PARKINSON, ROBERT
1984 HALLEMANN RD
GOLIAD TX 77963-3352

PARMA, JOYCE J
1182 DOBSKYVILLE RD
YORKTOWN TX 78164-1959

PAULSGROVE, STEVEN G
PO BOX 1234
GOLIAD TX 77963-1234

PENA, STACY STOCKTON
1371 HALL RD
GOLIAD TX 77963-3671

PERKINS JR, DOYLE E
661 MARGIL ST
GOLIAD TX 77963-4309

PERRY, RODNEY
PO BOX 1103
GOLIAD TX 77963-1103

PESEK, ROBIN
553 PESEK LN
GOLIAD TX 77963-3639

PETERS, KATHY
345 E FRANKLIN ST
GOLIAD TX 77963-4214

POWER, NORMAN
PO BOX 253
GOLIAD TX 77963-0253

PRIMROSE, RONNIE
500 ATZENHOFFER RD
YORKTOWN TX 78164-5414

QUILLIAN, JOANN
1444 RUTHERFORD LN
GOLIAD TX 77963-3336

RADER, JIMMIE D
PO BOX 665
GOLIAD TX 77963-0665

REAL, CATHY & MONTY
1938 FOX RD
GOLIAD TX 77963-3356

REED, CYRUS CONSERVATION DIRECTOR
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PO BOX 1931
AUSTIN TX 78767-1931

REED, CYRUS CONSERVATION DIRECTOR
LONE STAR CHAPTER SIERRA CLUB
1202 SAN ANTONIO ST
AUSTIN TX 78701-1834

REICHERT-GARZA, STEPHANIE
134 TILLEY LN
VICTORIA TX 77905-3124

REITZ, DENNIS & IDA M
PO BOX 126
WEESATCHE TX 77993-0126

REUTTER, FRANK
229 MAGUEY DR
VICTORIA TX 77905-3115

REUTTER, JANE
229 MAGUEY DR
VICTORIA TX 77905-3115

RHOTENBERRY, SAM
104 W REUSS BLVD
CUERO TX 77954-3510

RICE, GEORGE
414 E FRENCH PL
SAN ANTONIO TX 78212-3723

RIEBSCHLAEGER, ELIZABETH
PO BOX 364
CUERO TX 77954-0364

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312 STATE HIGHWAY 119 S
YORKTOWN TX 78164

RIGGS, RANDY
3163 N 183
GOLIAD TX 77963

RITENOUR, KLAUS & TAMMY
27 NOLL RD
MEYERSVILLE TX 77974-3970

ROESSLER, LAFERN & MELVIN
56 KATHY ST
VICTORIA TX 77905-3641

ROSS, ERIC & SHARON
4466 E FM 1961
GOLIAD TX 77963-3441

ROSS, ERIC
4466 E FM 1961
GOLIAD TX 77963-3441

RUTHERFORD , MARGARET A
1256 BLUNTZER RD
GOLIAD TX 77963-3403

SAGEBIEL , MR & MRS OBEL
10218 S US HIGHWAY 183
CUERO TX 77954-6558

SALYER , JEANETTE & MONTE
4595 FRANKE RD
GOLIAD TX 77963-3618

SALYER , JIM
PO BOX 3966
VICTORIA TX 77903-3966

SAMFORD , MONA
5222 KINGS HWY
AUSTIN TX 78745-2862

SANCHEZ , VICENTE
PO BOX 1353
GOLIAD TX 77963-1353

SAUERMILCH , WILBERT
PO BOX 826
YORKTOWN TX 78164-0826

SAYLER , MONTE
4595 FRANKE RD
GOLIAD TX 77963-3618

SCHEURICH , MRS MANFRED M
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NORDHEIM TX 78141-0102

SCHEURICH , VENICE
COASTAL BEND SIERRA CLUB
PO BOX 10101
CORPUS CHRISTI TX 78460-0101

SCHINDLER , MARK J
PO BOX 50332
AUSTIN TX 78763-0332

SCHLEY , BONNIE
1945 GOLLY RD
CUERO TX 77954-5717

SCHLEY , TRAVIS
240 E FM 1961
GOLIAD TX 77963-3363

SCHNEIDER , CATHERINE
354 CRESHAM DR
SAN ANTONIO TX 78218-4219

SCHNEIDER , LEROY H
2437 ABRAMEIT RD
GOLIAD TX 77963-3717

SCHOENHERR , ELIZABETH
PO BOX 796
GOLIAD TX 77963-0796

SCHUSTEREIT , KENNETH D
275 BAASS LN
VICTORIA TX 77905-3606

SCHUSTEREIT , MICHAEL
119 SABINE ST
PORTLAND TX 78374-1453

SCOTT , DOUG
5415 E FM 1961
GOLIAD TX 77963-3652

SCOTT , JUDITH A
5415 E FM 1961
GOLIAD TX 77963-3652

SCOTT , KAREN
4791 STATE HIGHWAY 239 W
GOLIAD TX 77963-3850

SEAL , RUSSELL
SIERRA CLUB ALAMO GROUP
628 COUNTY ROAD 5711
LA COSTE TX 78039-2301

SEILER , PHIL
346 E FM 884
YORKTOWN TX 78164-5446

SHARP , BETTY
2181 DIEBEL RD
WEESATCHE TX 77993

SHERMAN , JO & WILLIAM
140 SEA MIST DR
ARANSAS PASS TX 78336-5805

SHERWOOD , ROBIN
PO BOX 39
FANNIN TX 77960-0039

SIEVERS , BETTY
670 NOLL RD
MEYERSVILLE TX 77974-3954

SIMMONS , DEE ANN
913 WHEELER LN
GOLIAD TX 77963-3644

SIMMONS , WAYLAN A
URAC
913 WHEELER LN
GOLIAD TX 77963-3644

SISSON , LARRY
461 LASSMAN RD
GOLIAD TX 77963-3774

SKIPPER, SHEILA DIANE
5811 E FM 1961
GOLIAD TX 77963-3444

SMITH, BARBARA
GOLIAD COUNTY GROUNDWATER CONS DIST
376 GOLIAD N
GOLIAD TX 77963-3446

SMITH, BARBARA
PO BOX 562
GOLIAD TX 77963-0562

SMITH, MARGIE & WAYNE
4 LOS ROBLES RD
YORKTOWN TX 78164-5184

SMITH, MARGIE
4 LOS ROBLES RD
YORKTOWN TX 78164-5184

SMITH, SHIRLEY D
4167 POST OAK RD
GOLIAD TX 77963-3324

SMITH, WAYNE
4 LOS ROBLES RD
YORKTOWN TX 78164-5184

SMITH JR, WILLIAM G
38 MAIN ST
WEESATCHE TX 77993

SONNEN, ED
4211 BUNKER HILL ST
SAN ANTONIO TX 78230-1607

SPANN, DONNA & MIKE
1750 NOLL RD
MEYERSVILLE TX 77974-3940

SPEARS, STEPHANIE Y
307 W BRAZOS ST
VICTORIA TX 77901-5105

SPRINKLE, MARK
320 ELIOT RD
MEYERSVILLE TX 77974-3925

SPRINKLE, REBECCA
320 ELIOT RD
MEYERSVILLE TX 77974-3925

SPRINKLE, RYAN
320 ELIOT RD
MEYERSVILLE TX 77974-3925

STACY, ROBERT & ROSEMARY
1214 JANK LN
GOLIAD TX 77963-3417

STANFORD, BERNICE
698 STANFORD LN
VICTORIA TX 77905-3122

STANFORD, KELLY
414 CHERRY STONE CIR
VICTORIA TX 77904-3076

STANFORD, R G
698 STANFORD LN
VICTORIA TX 77905-3122

STANGE, CURTIS
2506 COLETOVILLE RD S
VICTORIA TX 77905-3044

STOCKTON, ADA SUE
800 E JONES ST
BEEVILLE TX 78102-2842

STOCKTON, BEN
PO BOX 144
WOODSBORO TX 78393-0144

STOCKTON, TOM E
1367 HALL RD
GOLIAD TX 77963-3671

STOCKTON, VICTORIA A
1367 HALL RD
GOLIAD TX 77963-3671

STRYKER, PAM & ROBERT
661 ABRAMEIT RD
GOLIAD TX 77963-3676

STURM, ANNA GERALDINE
6694 DANFORTH RD
GOLIAD TX 77963-3548

STURM, FRITZ
6694 DANFORTH RD
GOLIAD TX 77963-3548

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1483 E FM 884
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2204 HUTCHINS LN
EL CAMPO TX 77437-2110

SWANSON, MERRILL & REBECCA N
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EL CAMPO TX 77437-2110

SWICKHEIMER, GEORGIA LEE
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118 WEARDEN DR
VICTORIA TX 77904-9630

THURK, CAROL
959 DOBSKYVILLE RD
YORKTOWN TX 78164-1957

THURK, CAROL & DORIAN
959 DOBSKYVILLE RD
YORKTOWN TX 78164-1957

TIBILETTI, JOE
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VICTORIA TX 77903-7286

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FANNIN TX 77960

VAUGHN, SANDRA
120 BEECHWOOD DR
VICTORIA TX 77901-4717

VILLALOBOS, MIGUEL A
9577 N US HWY 59
FANNIN TX 77960

VILLEGAS, KOURTNI
218 S BURKE ST
GOLIAD TX 77963-4209

VILLEGAS, KRISTINA
218 S BURKE ST
GOLIAD TX 77963-4209

VILLEGAS JR, LORETTO
218 S BURKE ST
GOLIAD TX 77963-4209

VOGEL, MACKEY & ROMAN E
2750 AFFLERBACH RD
YORKTOWN TX 78164-2103

VOGEL, ROMAN E
2750 AFFLERBACH RD
YORKTOWN TX 78164-2103

WALKER, DAVID
PO BOX 1086
GOLIAD TX 77963-1086

WARD, MARTHA
PO BOX 1101
YORKTOWN TX 78164-1101

WARD, MARTHA & ROY A
PO BOX 1101
YORKTOWN TX 78164-1101

WARD, ROY
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WARREN, CAROL
1235 HALLEMANN RD
GOLIAD TX 77963-3309

WARREN, CAROL & DAVID P
1235 HALLEMANN RD
GOLIAD TX 77963-3309

WARREN, MOBI
1826 POPPY PEAK ST
SAN ANTONIO TX 78232-2418

WEST, CATHERINE
PO BOX 371
GOLIAD TX 77963-0371

WHITWORTH, BOBBY
PO BOX 596
BERCLAIR TX 78107-0596

WILD, KAY
12121 FM 240
WESTHOFF TX 77994-4131

WILDER, KELLI
422 SPRINGWOOD LN
SAN ANTONIO TX 78216-6852

WILLIAMS, HENRIETTA RITA
PO BOX 1023
GOLIAD TX 77963-1023

WILLIAMS, JAMES B
7821 IMPALA DR
CORPUS CHRISTI TX 78414-5933

WILLIAMS, MINA
141 NAPLES ST
CORPUS CHRISTI TX 78404-1828

WUNSCH, GLORIA & THOMAS
1302 FM 622
VICTORIA TX 77905-3106

WUNSCH, LESLIE & TRACE
301 E SOUTH RAILROAD ST
CUERO TX 77954-3031

YBARBO, DEBBIE
218 FANNIN ST
GOLIAD TX 77963

YEARY, EMILY
1707 BEAUVOIR LN
VICTORIA TX 77901-4281

YOUNG, JEAN FULLER
11163 ST HWY 239 W
GOLIAD TX 77963-3826

YORK, KATHY & RUDY
188 CHASE ST
GOLIAD TX 77963-3781

VASQUEZ, LUIS
9639 N US HWY 29
FANNIN TX 77963

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401 JOSEPHINE RD
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218 S BURKE ST
GOLIAD TX 77963-4208

VILLALOBOS, MIGUEL A
10711 S HWY 38
FANNIN TX 77963

VAUGHN, SANDRA
138 BEECHWOOD DR
VICTORIA TX 77901-4111

VOGEL, MACKAY & ROMAN E
2750 AFTERBACH RD
YORKTOWN TX 78164-2103

VILLASIN, LORETO
218 S BURKE ST
GOLIAD TX 77963-4208

VILLEGAS, KRISTINA
218 S BURKE ST
GOLIAD TX 77963-4208

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PO BOX 1101
YORKTOWN TX 78164-1101

WALKER, DAVID
PO BOX 1086
GOLIAD TX 77963-1086

VOGEL, RICHARD E
2750 AFTERBACH RD
YORKTOWN TX 78164-2103

WARREN, CAROL
1212 HALLMAN RD
GOLIAD TX 77963-2308

WARD, ROY
PO BOX 1101
YORKTOWN TX 78164-1101

WARD, MARTHA & ROY A
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YORKTOWN TX 78164-1101

WEST, CATHERINE
PO BOX 371
GOLIAD TX 77963-0371

WARREN, MORI
1826 PORTY PEAR ST
SAN ANTONIO TX 78233-2418

WARREN, CAROL & DAVID P
1212 HALLMAN RD
GOLIAD TX 77963-2308

WILDER, KELLY
422 SPRINGWOOD LN
SAN ANTONIO TX 78216-0822

WILD, KAY
12121 FM 240
WESTHOPE TX 77964-4121

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PO BOX 286
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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



AN ORDER Approving the Applications of Uranium Energy Corp for Issuance of a Class III Injection Well Permit No. UR03075, Aquifer Exemption Order, and Production Area Authorization No. 1 in Goliad County, Texas, TCEQ Docket Nos. 2008-1888-UIC and 2009-1319-UIC, SOAH Docket Nos. 582-09-3064 and 582-09-6184

On December 14, 2010 and February 23, 2011, the Texas Commission on Environmental Quality ("Commission" or "TCEQ") considered the applications of Uranium Energy Corp for a Class III Injection Well Permit No. UR03075, which includes a request for designation of an exempt aquifer ("Mine Application"), and for Production Area Authorization ("PAA") UR03075PAA1 ("PAA-1 Application"). The applications were presented to the Commission with a proposal for decision by the Honorable Richard Wilfong, Administrative Law Judge ("ALJ") with the State Office of Administrative Hearings ("SOAH").

After considering the ALJ's Proposal for Decision ("PFD") and the evidence and arguments presented, the Commission makes the following Findings of Fact and Conclusions of Law:

FINDINGS OF FACT

I. Introduction

1. The Applicant in this case is Uranium Energy Corp ("UEC"). UEC's business address is Suite 800N, 500 Shoreline Blvd., Corpus Christi, TX 78471.
2. The proposed facility is located approximately 13 miles north of the city of Goliad, about 0.9 miles east of the intersection of Highway 183 and Farm-to-Market Road 1961 in Goliad County, Texas.

3. UEC filed its Mine Application seeking Class III Underground Injection Control area permit, Permit No. UR03075 (the "Mine Permit").
4. UEC also filed its PAA-1 Application to authorize UEC to construct and operate Class III injection and production wells for the recovery of uranium in proposed Production Area 1 ("PA-1").
5. The applications, if approved, would set the conditions under which UEC would be permitted to conduct the in situ uranium mining.
6. The Executive Director ("ED") reviewed the Mine Application and PAA-1 Application (the "Applications") and concluded that the Applications meet all legal standards.
7. The ED prepared a draft Mine Permit, a draft Aquifer Exemption Order, and a draft PAA for the Commission's approval.
8. After the parties requesting denial ("Protestants") filed their protests, the Commission referred these disputed issues of fact ("Issues") to SOAH for a contested case hearing:
 - A. Whether the use and installation of the injection wells are in the public interest under TEX. WATER CODE § 27.05 1(a). Public interest in regard to this issue includes whether UEC's mining operation or restoration activities will adversely impact the public interest by unreasonably reducing the amount of groundwater available for permitting by the Goliad County Groundwater Conservation District.
 - B. Does the applicant's compliance history require denial of the application under TEX. WATER CODE § 27.05 1(e) and 30 TEX. ADMIN. CODE (TAC) Ch. 60?
 - C. Does the application adequately and accurately describe baseline conditions of the groundwater in the proposed permitted area under applicable requirements of 30 TAC Ch. 331?
 - D. Does the application meet all applicable criteria of 30 TAC § 331.122, related to required consideration by the Commission prior to issuing a Class III Injection Well Area Permit?
 - E. Has the applicant demonstrated that the proposed exempted aquifer meets the applicable criteria of 30 TAC § 331.13?
 - F. Is the application sufficiently protective of groundwater quality?
 - G. Does the application adequately characterize and describe the geology and hydrology in the proposed permit area, including fault lines, under the applicable rules?
 - H. Do the geologic and hydraulic properties of the proposed permit area indicate that the applicant will be able to comply with rule requirements?
 - I. Does the applicant meet the applicable requirements for financial assurance under

TEX. WATER CODE §§ 27.051 and 27.073, and 30 TAC Ch.37 and 331?

- J. Is the application sufficiently protective of surface water quality?
- K. Are local roadways sufficient to handle traffic to and from the proposed facility?
- L. Whether UEC's proposal for restoration of groundwater to baseline levels as contained in the permit application is reasonable and adequate?
- M. Will the applicant's proposed activities negatively impact livestock and wildlife, including endangered species?
- N. Will the applicant's proposed activities negatively impact the use of property?
- O. Will the applicant's proposed activities adversely affect public health and welfare?
- P. Whether the proposed mining is in the recharge zone of the Gulf Coast Aquifer (Evangeline component)?
- Q. Whether the Gulf Coast Aquifer is a confined aquifer in the areas of Goliad County where UEC will conduct UIC [underground injection control] activities?
- R. Whether mining fluids will migrate vertically or horizontally and contaminate an USDW [underground source of drinking water]?
- S. Whether there are any USDWs within the injection zones proposed by UEC?
- T. Whether any USDWs within Goliad County will be adversely impacted by UEC's proposed *in situ* uranium operations?
- U. Whether there is a practical, economic and feasible alternative to an injection well reasonably available within the meaning of that term as set forth in TEX. WATER CODE § 27.051(d)(2)?
- 9. In addition, the Commission referred UEC's PAA-1 Application directly to SOAH. The issue in that referral was whether the application complies with all applicable statutory and regulatory requirements.

II. Parties and Procedural History

- 10. On August 9, 2007, UEC filed its Mine Application.
- 11. On August 29, 2007, TCEQ declared the Mine Application to be administratively complete.
- 12. Following a technical review of the Mine Application, during which the ED requested and received additional information from UEC, the ED made a preliminary determination

that the Mine Application meets all applicable statutory and regulatory requirements for issuance of a mine permit and aquifer exemption order.

13. The ED prepared UEC's compliance history and determined that UEC's compliance classification is average by default.
14. On January 24, 2008, the ED held a public meeting in Goliad to receive public comment regarding the Mine Application.
15. On June 4, 2008, the ED issued a draft Mine Permit and a draft Aquifer Exemption Order.
16. On September 4, 2008, UEC filed its PAA-1 Application with TCEQ.
17. On September 19, 2008, the ED made an official determination that the PAA-1 Application was administratively complete.
18. On October 31, 2008, the ED issued written responses to public comments regarding the Mine Application ("RTC Regarding Mine Application").
19. On February 25, 2009, TCEQ held an open meeting at which the Commissioners evaluated requests for a contested case hearing on the Mine Application (TCEQ Docket No. 2008-1888-UIC).
20. On March 3, 2009, TCEQ issued an Interim Order by which it:
 - a) granted the requests for a contested case hearing filed by Goliad County (the "County"), Goliad County Groundwater Conservation District (the "District"), Ander-Weser Volunteer Fire Department, St. Peter's Lutheran Church, Mary and Tom Anklam, Raymond and Karon Arnold, Aldon and Brenda Bade, Mickey and Elizabeth Beard, Richard and Catherine Bettge, Otto and Ruth Bluntzer, Matt and Erika Bochat, Gene and Reta Brown, John and Pearl Caldwell, Lynn and Ginger Cook, Luann and Craig Duderstadt, Darwyn and Waynell Duderstadt, Wilburn and Doris Duderstadt, Douglas and Wanda Franke, Mary Kathryn Bluntzer Gray, Joel and Jana Grieser, Brenda Jo Hardt, Ernest and Frances Hausman, Gaylon and Barbara Kornfuehrer, Ted and Pam Long, Mr. and Mrs. Jason Mikeska, Ricki McKinney, Susan and Weldon Orr, Margaret Rutherford, Wayne and Margie Smith, and Dorian and Carol Thurk;
 - b) referred the matter to SOAH;
 - c) directed the ED to participate in the contested case hearing;
 - d) established a one year maximum duration of the hearing from the first day of the preliminary hearing to the date the proposal for decision is issued by SOAH; and
 - e) referred the twenty-one Issues, which had been raised in public comments, to SOAH.
21. On May 14, 2009, the SOAH ALJ held a preliminary hearing in Goliad, Texas during which he admitted the following parties:

PARTY	REPRESENTATIVE
Uranium Energy Corp (Applicant)	Monica Jacobs, Attorney
The Executive Director of the Texas Commission on Environmental Quality	Shana Horton, Staff Attorney
Office of Public Interest Counsel	Garrett Arthur, Attorney
Goliad County	James B. Blackburn, Attorney
Goliad County Groundwater Conservation District	Rob Baiamonte, Attorney
Goliad County Farm Bureau, individually and as representative of specified entities and landowners who are aligned parties ¹	P.T. Calhoun, President
Raymond V. Carter, Jr., aligned with Applicant	Aligned Property Owners
Tom E. Stockton, aligned with Applicant	Aligned Property Owners
Mona Samford and brother, Sidney Braquet, aligned with Applicant	Aligned Property Owners

22. On May 27, 2009, by SOAH Order No. 2, and on May 28, 2009, by SOAH Order No. 3, the ALJ established a procedural schedule, and set a hearing on the merits to be commenced on January 4, 2010. The procedural schedule was later extended based on agreed or unopposed motions filed by the parties and granted by the ALJ pursuant to 30 TAC § 80.4(c)(17).
23. Following a technical review of the PAA-1 Application, during which the ED requested and received additional information from UEC, the ED made a preliminary determination that the PAA-1 Application meets all applicable statutory and regulatory requirements for issuance of a PAA.
24. On June 2, 2009, the ED issued a Technical Summary and ED's Preliminary Decision.
25. On June 9, 2009, the ED issued a draft PAA.
26. On August 14, 2009, UEC filed a request for the direct referral of the PAA-1 Application to SOAH for a contested case hearing pursuant to 30 TAC § 55.210.
27. On August 18, 2009, UEC filed an Unopposed Motion to Abate Procedural Schedule for Purposes of Consolidating Production Area Authorization.

¹ Those entities and landowners are: Ander-Weser Volunteer Fire Department, St. Peter's Lutheran Church, Mary and Tom Anklam, Raymond and Karon Arnold, Aldon and Brenda Bade, Mickey and Elizabeth Beard, Richard and Catherine Bettge, Otto and Ruth Bluntzer, Matt and Erika Bochat, Gene and Reta Brown, John and Pearl Caldwell, Lynn and Ginger Cook, Luann and Craig Duderstadt, Darwyn and Waynell Duderstadt, Wilburn and Doris Duderstadt, Douglas and Wanda Franke, Mary Kathryn Bluntzer Gray, Joel and Jana Grieser, Brenda Jo Hardt, Ernest and Frances Hausman, Gaylon and Barbara Kornfuehrer, Ted and Pam Long, Mr. and Mrs. Jason Mikeska, Ricki McKinney, Susan and Weldon Orr, Margaret Rutherford, Wayne and Margie Smith, and Dorian and Carol Thurk.

28. On August 24, 2009, by SOAH Order No. 4, the ALJ abated the procedural schedule and adopted a revised schedule.
29. On September 11, 2009, by SOAH Order No. 5, the ALJ confirmed the location for hearing on the merits.
30. On September 29, 2009, by SOAH Order No. 6, the ALJ ordered a portion of the hearing to be held in Goliad, Texas.
31. On September 29, 2009, UEC filed an Agreed Motion to Consolidate for Purposes of Hearing its PAA-1 Application with its Mine Application (the "Motion to Consolidate").
32. On October 5, 2009, the ED held a public meeting in Goliad to receive public comment regarding the PAA-1 Application.
33. On October 6, 2009, SOAH held a preliminary hearing in Goliad, Texas and designated parties.
34. On October 8, 2009, the ALJ issued SOAH Order No. 7, by which he granted the Motion to Consolidate.
35. On October 26, 2009, UEC filed an unopposed motion to abate this proceeding to allow it to make minor amendments to its Mine Application and PAA-1 Application. On October 26, 2009, the ALJ issued SOAH Order No. 8, by which he granted the abatement.
36. On November 6, 2009, UEC filed amendments to its Mine Application and its PAA-1 Application to reflect changes to its plans for the uranium processing facility. The amendments reflect that the final stages of uranium recovery would occur at an off-site location, rather than at the proposed Goliad facility. These amendments result in a smaller footprint of the Goliad processing facility.
37. By a Joint Status Report filed on December 15, 2009, the parties proposed a date of May 3, 2010, for the hearing on the merits and proposed a procedural schedule leading up to that hearing date.
38. On December 18, 2009, the ALJ issued SOAH Order No. 9, by which he set the hearing on the merits for May 3, 2010, and established a procedural schedule as proposed by the parties. The parties also reached an agreement regarding the location of the hearing.
39. On January 20, 2010, the ALJ issued SOAH Order No. 10, which in accordance with the parties' agreement provided that if the hearing on the merits continued into a second week (*i.e.*, into the week of May 10th), that portion of the hearing would be held in Goliad.
40. On January 28, 2010, the ED issued written responses to public comments regarding the PAA-1 Application ("RTC Regarding PAA-1 Application").
41. On April 30, 2010, the ALJ held a prehearing conference.

42. The hearing on the merits was conducted by ALJ Richard Wilfong on May 3 through 11, 2010. From May 3 through May 7, 2010, the hearing was held in Austin, Texas at the State Office of Administrative Hearings, William Clements State Office Building, 4th Floor. On May 10 and 11, the hearing was held in Goliad County at the Goliad County Courtroom, 127 North Courthouse Square, Goliad, Texas 77963.

43. The Parties and their representatives who participated in the hearing of this case were:²

PARTY	REPRESENTATIVE
UEC	Monica Jacobs and Diana Nichols, Attorneys, Austin, Texas
ED	Shana Horton, Staff Attorney, TCEQ
Office of Public Interest Counsel ("OPIC")	Garrett Arthur, Attorney
Goliad County	James B. Blackburn and Adam M. Friedman, Attorneys, Houston, Texas
Goliad County Groundwater Conservation District	Rob Baiamonte, Attorney, Goliad, Texas

44. The Parties filed Closing Argument Briefs on July 9, 2010.

45. The Parties filed Replies to Closing Argument Briefs on July 30, 2010, and the record closed.

III. Notice and Jurisdiction

46. Notice of Receipt of Application and Intent to Obtain a New Underground Injection Control Permit was mailed to the application mailing list on September 5, 2007, and was published in the *Victoria Advocate* on September 19, 2007 and the *Texan Express* on September 26, 2007.

47. Notice of Application and Preliminary Decision for Class III Injection Well, including notice of the request for designation of an exempt aquifer, was mailed to the application mailing list on June 17, 2008 and was published in the *Victoria Advocate* on June 20, 2008 and the *Texan Express* on June 25, 2008.

48. Notice of Receipt of Application and Intent to Obtain a New Production Area Authorization (PAA) was mailed to the application mailing list on September 26, 2008 and

² These persons were designated as parties but did not participate in the hearing: Raymond V. Carter, Tom E. Stockton, Mona Samford and Sidney Braquet, aligned with UEC; and Goliad County Farm Bureau, individually and as representative of the following aligned protestant entities and land owners: Ander-Weser Volunteer Fire Department, Mary and Tom Anklam, Raymond and Karon Arnold, Aldon and Brenda Bade, Mickey and Elizabeth Beard, Richard and Catherine Bettge, Otto and Ruth Bluntzer, Matt and Erika Bochat, Gene and Reta Brown, John and Pearl Caldwell, Lynn and Ginger Cook, Luann and Craig Duderstadt, Darwyn and Waynell Duderstadt, Wilburn and Doris Duderstadt, Douglas and Wanda Franke, Mary Kathryn Bluntzer Gray, Joel and Jana Grieser, Brenda Jo Hardt, Ernest and Frances Hausman, Gaylon and Barbara Kornfuehrer, Ted and Pam Long, Ricki McKinney, Mr. and Mrs. Jason Mikeska, Susan and Weldon Orr, Margaret Rutherford, Wayne and Margie Smith, St. Peter's Lutheran Church, and Dorian and Carol Thurk.

published in the *Victoria Advocate* on September 26, 2008 and the *Texan Express* on October 1, 2008.

49. The Amended Notice of Hearing on the Class III area application and the request for designation of an exempt aquifer was mailed to the application mailing list and applicant contacts on April 3, 2009. The Amended Notice of Hearing was mailed to the adjacent and permit area landowners on April 7, 2009, as required by 30 TAC § 39.651(f). The Amended Notice of Hearing was published in the *Victoria Advocate* in Victoria County on April 7, 2009; *The Countywide* in Karnes County, *Texan Express* in Goliad County, *Cuero Record/Yorktown News-View* in DeWitt County, and *Beeville Bee-Picayune* in Bee County on April 8, 2009; and *The Refugio County Press* in Refugio County on April 9, 2009.
50. On May 14, 2009, the ALJ held a preliminary hearing in Goliad, Texas during which he established jurisdiction over the Mine Application.
51. Revised Notice of Application and Preliminary Decision for New Production Area Authorization was mailed to the application mailing list on June 18, 2009 and published in the *Victoria Advocate* on June 23, 2009 and the *Texan Express* on June 24, 2009.
52. On October 6, 2009, SOAH held a preliminary hearing in Goliad, Texas and established jurisdiction over the PAA-1 Application.
53. All public notices were in proper form and given to the required notice recipients in the required manner.

IV. Background

54. Before beginning operations, a mine operator must receive an underground injection permit to establish a mine, an aquifer exemption to conduct mining activities within an aquifer, and at least one PAA, which is an administrative designation of a production area within the boundary of the approved mining area.

Mine Permit

55. The Mine Permit authorizes UEC to construct and operate Class III injection and production wells for recovery of uranium from a certain portion of the Goliad Formation.
56. The area within the boundary of the proposed Mine Permit is approximately 1,139.4 contiguous acres, including a 100-foot buffer zone (the "Mine Permit Area").

Aquifer Exemption

57. The Mine Application includes a request for an aquifer exemption.
58. An exempted aquifer is an aquifer or a portion of an aquifer which meets the criteria for fresh water but which has been designated an exempted aquifer by the Commission after notice and opportunity for public hearing. The Commission's administrative order

designating the aquifer exemption requested in the Mine Application ("Aquifer Exemption Order") is attached as Exhibit B.

59. The requested aquifer exemption covers approximately 423.8 acres within the larger Mine Permit Area and applies from a depth of 45 to 404 feet within the Goliad Formation (the "Aquifer Exemption Area").

PAA Application

60. UEC also filed its PAA-1 Application to authorize UEC to construct and operate Class III injection and production wells for the recovery of uranium in proposed PA-1 within the Mine Permit Area.
61. The requested PAA is issued under the terms of the proposed Mine Permit. The area within the boundary of proposed PA-1 is approximately 36.1 acres within a 94.2-acre mine area in the southern portion of the proposed Mine Permit Area.
62. The draft PAA includes: a mine plan with estimated schedules for mining and aquifer restoration, a baseline water quality table, a restoration table, control parameter upper limits, monitor well locations, and cost estimates for aquifer restoration and well plugging and abandonment.

V. Issues Referred to SOAH Regarding the Mine Application

A. Whether the use and installation of the injection wells are in the public interest under Texas Water Code §27.051(a). Public interest in regard to this issue includes whether UEC's mining operation or restoration activities will adversely impact the public interest by unreasonably reducing the amount of groundwater available for permitting by the Goliad County Groundwater Conservation District.

63. UEC's proposed installation and use of Class III injection wells for in situ mining of uranium are in the public interest, in accordance with the criteria in TEX. WATER CODE § 27.051(a).
64. Uranium, in contrast with oil and gas, is a very scarce natural resource that exists in commercially mineable concentrations in only a few areas of the United States, including Goliad County, Texas.
65. It is in the public interest for this natural resource to be produced to meet the energy needs of the United States, and for the mineral owners to realize the economic benefits of uranium production on their property.
66. A review of the ED's RTC Regarding Mine Application shows that the ED considered a wide range of issues regarding public interest, including: economic impacts and quality of life, health and welfare, groundwater quality, geology/hydrology of the aquifer, monitoring, control of migration of mining fluids, aquifer restoration, financial assurance, and compliance history.

67. The ED undertook a balancing approach and considered potential negative impacts in making a determination of public interest.
68. The ED also reviewed the Mine Application to ensure that UEC would meet all regulatory requirements.
69. UEC's projected water consumption is between 133 and 206 acre-feet per year.
70. The District's Management Plan anticipated the need to plan for groundwater usage for uranium mining purposes. The Plan projects 800 acre-feet per year of groundwater usage for such purposes, which is almost four times the amount that UEC projects it will use on an annual basis.
71. UEC's estimated water use over the life of the project and projected maximum monthly water use are also projected to fall within the limits of the District's current water usage rule.
72. UEC's mining operation and restoration activities will not unreasonably reduce the amount of groundwater available for permitting by the District.
73. UEC's compliance history does not show that granting the Mine Application would be against the public interest. The findings set forth in Section V.B below are incorporated by reference herein.
74. UEC's ability to meet applicable financial assurance requirements does not show that granting the Mine Application would be against the public interest. The findings set forth in Section V.I below are incorporated by reference herein.
75. UEC's restoration proposal and past groundwater restoration efforts by other operators do not show that granting the Mine Application would be against the public interest. The findings set forth in Section V.L below are incorporated by reference herein.
76. There is no practical, economic and feasible alternative to an injection well reasonably available within the meaning of that term as set forth in TEX. WATER CODE § 27.051(d)(2). The findings set forth in Section V.U below are incorporated by reference herein.

B. Does the Applicant's compliance history require denial of the application under TEX. Water Code § 27.051(e) and 30 TAC Chapter 60?

77. The ED prepared a compliance history summary in accordance with Tex. Water Code § 27.051(e) and 30 TAC Chapter 60.
78. In the compliance history summary, UEC received a rating of 3.01, which is an average classification by default since UEC has no history of operations in Texas.

C. Does the application adequately and accurately describe baseline conditions of the groundwater in the proposed permitted area under applicable requirements of 30 TAC Chapter 331?

- 79. Local water quality was established by sampling all existing wells within the Mine Permit Area and by sampling nearly all the existing wells within 1 kilometer of the permit area boundary. In addition, UEC completed and sampled 20 baseline wells.
- 80. The locations of the 20 baseline wells largely correspond to the area where UEC anticipates mining (*i.e.*, areas of high uranium mineralization).
- 81. The Mine Application contains the water quality results for the 20 baseline wells and the 47 area wells located inside the permit area boundary or within 1 kilometer of the permit area boundary.
- 82. Groundwater quality data from the 20 baseline wells is remarkably similar to the data from the 47 wells for all constituents with the exception of uranium and radium-226, which are significantly higher in the baseline wells.

D. Does the application meet all applicable criteria of 30 TAC § 331.122, related to required consideration by the Commission prior to issuing a Class III Injection Well Area Permit?

- 83. UEC described the list of the items that the Commission is required to consider in its administrative and technical review under 30 TAC § 331.122 before issuing an area permit, as well as the location of each such item in the Mine Application.
- 84. UEC submitted all of the data and each of the items for the applicable criteria listed in 30 TAC § 331.122, and the Commission considered each of these items.

E. Has the Applicant demonstrated that the proposed exempted aquifer meets the applicable criteria of 30 TAC § 331.13?

- 85. There are no water wells that are used for human consumption within the proposed Aquifer Exemption Area.
- 86. UEC demonstrated that the area of the exempted aquifer is uranium-bearing with production capability.
- 87. In addition, the groundwater in the proposed exempted aquifer is contaminated due to the uranium mineralization such that it would be economically or technologically impractical to render the water fit for human consumption.
- 88. The proposed aquifer exemption area was properly delineated.

F. Is the application sufficiently protective of groundwater quality?

- 89. In accordance with 30 TAC § 331.102, UEC is or will be required to:

- Identify existing wells that could serve as a conduit for mining solutions to move outside the production zone or the production area (30 TAC § 331.42);
 - Construct wells in accordance with construction requirements (30 TAC § 331.82);
 - Maintain mechanical integrity of all Class III wells (30 TAC § 331.4);
 - Implement corrective action standards to prevent or correct pollution of a USDW (30 TAC § 331.44);
 - Obtain ED approval of construction and completion of wells (30 TAC § 331.45);
 - Operate wells in accordance with operation requirements (30 TAC § 331.83);
 - Monitor wells in accordance with monitoring requirements (30 TAC § 331.84);
 - Submit reports in accordance with reporting requirements (30 TAC § 331.85); and
 - Close wells in accordance with a plugging and abandonment plan in a manner which will not allow the movement of fluids through the well, out of the injection zone, or to the land surface (30 TAC §§ 331.46 and 331.86).
90. The geologic and hydraulic properties of the Mine Permit Area indicate that UEC will be able to comply with rule requirements. The findings stated under Section V.H below are incorporated by reference herein.
91. Data in the Mine Application shows that mining fluids will not migrate vertically or horizontally and contaminate an USDW (underground source of drinking water). The findings stated under Section V.R below are incorporated by reference herein.
92. UEC's proposal for restoration of groundwater to baseline levels as contained in the Mine Application is reasonable and adequate. The findings stated under Section V.L below are incorporated by reference herein.
93. The Mine Application is sufficiently protective of groundwater quality.

G. Does the application adequately characterize and describe the geology and hydrology in the proposed permit area, including fault lines, under the applicable rules?

94. The application adequately characterizes and describes the geology and hydrology in the Mine Permit Area, including fault lines, under the applicable rules.
95. The Mine Application contains: a narrative description of the hydrology in the proposed Mine Permit Area; a narrative description of the geology in the proposed Mine Permit Area; permit-area cross sections (and a cross section index map); structure and isopach

- maps for each of the four sands (Sands A-D); and potentiometric surface maps—both within each sand and for the region—that show the direction of groundwater flow.
96. UEC presented a wealth of information about the geology and hydrology of the area, including the areas within and surrounding the proposed Mine Permit Area.
 97. Two faults exist within the proposed Mine Permit Area: the Northwest Fault and the Southeast Fault.
 98. The Northwest Fault is the larger of the two and runs along the northwest portion of the proposed Mine Permit Area, near the perimeter of proposed production areas A and C and very near the perimeter of proposed production area D.
 99. Further characterization of the Northwest Fault is not required for the Mine Permit. Where applicable, future PAA applications will include the results of hydrologic testing and an interpretation of those results with respect to any faults to determine the hydrologic connection both across the fault and vertically along the fault.
 100. The Southeast Fault transects only a small part of the southeast corner of the proposed Mine Permit Area and touches none of the proposed production areas.
 101. The Mine Application accurately and adequately describes all faults in the proposed Mine Permit Area.
 102. The Mine Application meets all applicable criteria of 30 TAC § 331.122, related to required consideration by the Commission prior to issuing a Class III Injection Well Area Permit. The findings set forth in Section V.D above are incorporated by reference herein.

H. Do the geologic and hydraulic properties of the proposed permit area indicate that the Applicant will be able to comply with rule requirements?

103. The geologic and hydraulic properties of the proposed Mine Permit Area indicate that UEC will be able to comply with rule requirements.
104. Sands B, C and D in the Mine Permit Area are confined aquifers. They are saturated with groundwater.
105. Sand A in the Mine Permit Area is hydraulically unconfined, but still isolated from the deeper sands by a low permeability confining layer throughout the Mine Permit Area.
106. Throughout the Mine Permit Area, each of the sands (Sands A—D) is separated from one another by continuous confining layers consisting largely of low permeability clay.
107. These confining layers average between thirty and forty-five feet in thickness in the Mine Permit Area.
108. For the most part, the hydraulic gradient within the Mine Permit Area is relatively flat, resulting in a slow rate of groundwater flow.

109. Regionally, the direction of groundwater flow is typical of coastal plain aquifers, that is, coastward. Thus, groundwater flow in the Mine Permit Area is generally to the southeast.
110. Mining fluids will not migrate vertically or horizontally and contaminate an USDW (underground source of drinking water). The findings set forth and/or incorporated by reference in Section V.R below are incorporated by reference herein.

I. Does the Applicant meet the applicable requirements for financial assurance under Texas Water Code §§ 27.051, 27.073, and 30 TAC Chapters 37 and 331?

111. UEC presented evidence showing its compliance with the detailed specifications and requirements about financial assurance that are prescribed by the TCEQ rules.
112. UEC's application does not lack specificity regarding the form and quality of financial assurance.
113. UEC meets the applicable requirements for financial assurance under Texas Water Code §§ 27.051, 27.073, and 30 TAC Chapters 37 and 331.
114. The Mine Application sets out a total preliminary estimated cost for the plugging of the wells in the four planned production areas. The estimate was derived by multiplying the total estimated footage for all wells by a cost per foot that reflects all costs, *i.e.*, labor, equipment, per diem, and materials, and specifies that the plugging material will be cement.
115. The Mine Application contains a description of the plugging method—cementing from bottom to top—that will be used to ensure that there will be no movement of fluid through the wells after abandonment, and a description of the restoration process that will ensure that no movement of contaminants will move from the production zone into a USDW.
116. The Mine Application contains a commitment that UEC will follow the requirements of 30 TAC § 331.86 in plugging the wells.
117. The ED reviewed the submitted cost estimates and determined that the coverage will be sufficient for the financial assurance that must be submitted after the permits and licenses are issued.

J. Is the application sufficiently protective of surface water quality?

118. Class III area permit applications address protection of surface water only in a general sense. The specific regulatory requirements for containment of surface fluids are included in a radioactive material license ("RML"). An in situ uranium mine operator is required to have a RML.
119. UEC's Mine Application contains operational measures to comply with the Draft Mine Permit's prohibition against discharge of fluids into surface waters.

120. No impacts to wetlands are anticipated as a result of UEC's proposed operations.
121. The Mine Application describes design features related to the management of flooding and runoff. These features will prevent and/or minimize contact of mining fluids with the ground surface.
122. With proper construction practices, mining activities will not impact the quality of runoff caused by flooding.
123. Accidental spills at the plant, in the field, and at the Class I waste disposal well areas will be minimized by automated monitoring equipment, daily visual inspections and reporting, and by UEC's corrective action program.
124. UEC has adopted Operating, Safety and Emergency Procedures that establishes safety protocols for transporting shipments, including shipments of loaded resin or solid byproduct waste. It also establishes emergency response protocols to be implemented in the event of an accident.
125. Any concerns regarding possible migration of constituents from a production area in Sand A to Fifteen Mile Creek can be appropriately addressed in connection with the PAA application process for Sand A.
126. The Mine Application is sufficiently protective of surface water quality.

K. Are local roadways sufficient to handle traffic to and from the proposed facility?

127. Local roadways are sufficient to handle traffic to and from the proposed facility.
128. UEC's site access plan provides that UEC will construct a new road so that the main entrance to the proposed site will be directly onto US Highway 183.
129. US Highway 183 is designed for higher volume traffic and larger vehicles than local county roadways.
130. The local roadways will not be adversely affected by the traffic created by the proposed *in situ* uranium mining operation.

L. Whether UEC's proposal for restoration of groundwater to baseline levels as contained in the permit application is reasonable and adequate.

131. UEC's proposal for restoration of groundwater to baseline levels as contained in the Mine Application is reasonable and adequate.
132. The Mine Application contains a description of UEC's proposed restoration procedures, plans for a restoration demonstration and report to TCEQ regarding the demonstration.

133. UEC's restoration proposal incorporates improvements as compared to past restoration efforts in Texas. These include: 1) the use of reverse osmosis on a commercial scale during mining to provide a jump start on restoration; 2) the initiation of restoration as soon as mining ends in a production area; and 3) the continued use of the ion exchange (IX) columns to remove residual uranium during restoration instead of only during mining.
134. In addition, UEC's restoration efforts will benefit from technological advancements. The membranes that are used in the reverse osmosis process are now specifically designed to function with a longer life span and higher performance in the particular water quality in which they will be used.
135. Even though no restoration model is required, UEC does have a state-of-the-art hydrogeological model that it can use to increase its restoration success in its first production area.
136. Within 18 months after initiation of mining in the first production area (PA-1), UEC will conduct a restoration demonstration. If the results of that demonstration indicate the assumed number of pore volumes required for aquifer restoration is inadequate, the ED will require the amount of financial assurance for aquifer restoration to be adjusted accordingly.
137. Specific requirements for restoration of groundwater after the completion of mining are addressed in PAAs rather than in Class III injection well area permits.

M. Will the Applicant's proposed activities negatively impact livestock and wildlife, including endangered species?

138. The proposed uranium mining activities will not negatively impact livestock and wildlife, including endangered species.
139. If there is no contamination of the air, soil, surface water, or groundwater outside the production area, then animals are not impacted. The Mine Application complies with the rules designed to eliminate these possible pathways for contamination of animals.
140. The Mine Application is sufficiently protective of surface water quality. The findings of fact set forth and/or incorporated by reference in Section V.J above are incorporated by reference herein.
141. Groundwater is adequately protected from pollution. The findings set forth in and/or incorporated by reference into Sections V.F, V.H., and V.L above and Section V.R below are incorporated by reference herein.
142. UEC has adopted an Operational Monitoring Program, which is set forth in its RML Application. Pursuant to the RML, UEC will be required to conduct regular sampling of air, vegetation (including a grazing crop), soil, sediment, surface water and groundwater at pre-determined locations on a quarterly and annual basis throughout its operations.

This monitoring will enable UEC to detect any potential breach of the controls required by the RML.

N. Will the Applicant's proposed activities negatively impact the use of property?

143. UEC's proposed activities will not negatively impact the use of property.
144. Existing land uses adjacent to the Mine Permit Area include low density, scattered rural residential, cattle ranching, cropland, and oil and gas production.
145. UEC has demonstrated its compliance with the TCEQ regulatory scheme governing in situ uranium mining. Fresh water and air are adequately and sufficiently protected from pollution, soil and vegetation are adequately and sufficiently protected from contamination, and UEC's proposed activities will not negatively impact livestock and wildlife, including endangered species. The findings set forth in Sections V.F, V.H., V.J., V.L, V.M above and in Section V.R below are incorporated by reference herein.
146. The proposed mining operations and restoration activities will not adversely impact the public interest by unreasonably reducing the amount of groundwater available for permitting by the District. The findings set forth in Section V.A above are incorporated by reference herein.

O. Will the Applicant's proposed activities adversely affect public health and welfare?

147. UEC's proposed activities will not adversely affect public health and welfare.
148. UEC's proposed installation and use of Class III injection wells for in situ mining of uranium are in the public interest, in accordance with the criteria in TEX. WATER CODE § 27.051(a). The findings set forth in Section V.A above are incorporated by reference herein.
149. Fresh water and air are adequately and sufficiently protected from pollution; soil and vegetation are adequately and sufficiently protected from contamination; and UEC's proposed activities will not negatively impact livestock and wildlife, including endangered species. The findings set forth in Sections V.F, V.H., V.J., V.L, V.M above and in Section V.R below are incorporated by reference herein.
150. Local roadways are sufficient to handle traffic to and from the proposed facility. The findings set forth in Section V.K above are incorporated by reference herein.

P. Whether the proposed mining is in the recharge zone of the Gulf Coast Aquifer (Evangeline component).

151. The proposed mining is not in the recharge zone of the Gulf Coast Aquifer (Evangeline component).

Q. Whether the Gulf Coast Aquifer is a confined aquifer in the areas of Goliad County where UEC will conduct UIC activities.

152. Sands B, C and D in the Mine Permit Area are confined aquifers.
153. Sand A in the Mine Permit Area is hydraulically unconfined, but still isolated from the deeper sands by a low permeability layer throughout the Mine Permit Area and thus confined in a geologic sense.

R. Whether mining fluids will migrate vertically or horizontally and contaminate an USDW (underground source of drinking water).

General

154. Data in the Mine Application shows that mining fluids will not migrate vertically or horizontally and contaminate an USDW (underground source of drinking water).
155. UEC's proposed methods of confinement have long been supported by the ED and accepted by the Commission.
156. TCEQ rules require the confinement of mining solutions and monitor wells in and above the production zone.
157. The use of a bleed is well-established as a method of confining mining fluids in a production area. The mine will be monitored carefully by UEC and will be subject to scrutiny by the ED during the initial phases of its development.
158. The geologic and hydraulic properties of the proposed Mine Permit Area indicate that UEC will be able to comply with rule requirements. The findings of fact set forth in Section V.H above are incorporated by reference herein.
159. PA-1 is not involved with the Northwest Fault. Prior to commencing mining operations near the Northwest Fault, UEC will have to apply for, and the Commission will have to issue a production area authorization for at least one of the other proposed production areas. To obtain such a PAA, UEC will have to design and conduct a hydrologic testing program for the production area in which it seeks authorization to mine and submit the results of such hydrologic testing as a part of its PAA application. The PAA application will also include an interpretation of those results with respect to any faults to determine the hydrologic connection both across the fault and vertically along the fault.
160. The Southeast Fault is located well outside the proposed Aquifer Exemption Area and over 1,500 feet downgradient from the closest proposed production area, which is PA-1.

Horizontal Containment

161. Maintaining a cone of depression during mining operations prevents the horizontal migration of mining fluids.

162. Water levels in monitor wells are monitored regularly and pumping is adjusted where and when needed to provide horizontal confinement.
163. UEC's proposal for restoration of groundwater to baseline levels as contained in the permit application is reasonable and adequate. The findings of fact set forth and/or incorporated by reference in Section VI.L above are incorporated by reference herein.

Vertical Containment

Clay Confining Layers

164. The findings of fact set forth in Sections V.H and V.Q above (regarding confinement and confining layers) are incorporated by reference herein.

Boreholes

165. Boreholes will not serve as a conduit for vertical migration.
166. All exploration boreholes drilled by UEC were plugged with cement from total depth to at least 3 feet below ground surface and no closer than 1.5 feet from the surface. The remainder of the hole between the top of the plug and the surface was filled with cuttings or non-toxic soil.
167. In the early 1980s, Moore Energy Corporation ("Moore Energy") drilled about 487 boreholes throughout its entire exploratory permit area, which covered 17,635 square acres of land surface (some of which overlaps with UEC's exploratory permit area, but much of which does not).
168. Only three of the boreholes drilled by Moore Energy were logged before May 7, 1982 (the effective date of the Texas Railroad Commission's ("TRC") plugging regulation in effect at the time of the contested case hearing). All of the other boreholes were logged after March 15, 1983, and were likely drilled shortly before that. Thus, assuming compliance with the TRC's plugging regulation, these boreholes were plugged in a manner that prevented the mixing of water from different sand units within the hole.
169. Even if not plugged in accordance with the TRC's plugging regulation in effect at the time of the contested case hearing, the Moore Energy boreholes would not serve as conduits for vertical migration.
 - a. At a minimum, the drilling mud would have been left in the boreholes.
 - b. Uncased boreholes will typically collapse, and the thick sequence of clays will move across the borehole, further sealing and preventing migration. Even a few centimeters of clay will substantially retard fluid movement.
 - c. Even in the absence of clay from a collapsed borehole wall, drilling mud in a borehole, in and of itself, constitutes a significant barrier to groundwater flow, particularly after it has been allowed to gel for a time.

S. Whether there are any USDWs within the injection zones proposed by UEC.

170. There are USDWs within the injection zones proposed by UEC.

171. Each of the four proposed production zones is a USDW.

T. Whether any USDWs within Goliad County will be adversely impacted by UEC's proposed in situ uranium operations.

172. Data in the Mine Application shows that USDWs within Goliad County will not be adversely impacted by UEC's proposed in situ uranium operations.

173. The geologic and hydraulic properties of the proposed permit area indicate that the Applicant will be able to comply with rule requirements. The findings set forth in Section V.H above are incorporated by reference herein.

174. Mining fluids will not migrate vertically or horizontally and contaminate an USDW (underground source of drinking water). The findings set forth in Section V.R above are incorporated by reference herein.

175. UEC's proposal for restoration of groundwater to baseline levels as contained in the Mine Application is reasonable and adequate. The findings set forth in Section V.L above are incorporated by reference herein.

U. Whether there is a "practical, economic and feasible alternative to an injection well reasonably available" within the meaning of that term as set forth in TWC § 27.051(d)(2).

176. There are no practical, economic and feasible alternatives to the use of injection wells for uranium mining in the Mine Permit Area.

177. The available alternative methods for recovering uranium are underground and open pit (surface) mining, both of which involve de-watering the production zone sands, removing huge quantities of surface and subsurface material (*i.e.*, the overburden), and creating substantial amounts of solid waste (*i.e.*, tailings).

178. The in situ mining process is a more environmentally-protective means of uranium mining. As compared to the available alternatives, in situ uranium mining greatly minimizes physical damage to the land and subsurface and results in much less solid waste.

VI. PAA-1 Application

A. Mine Plan

179. UEC submitted an updated mine plan as part of its PAA-1 Application. The draft PAA, UR03075PAA1 (PAA1), includes the updated mine plan.

180. The updated mine plan includes a map of the proposed production areas and an updated estimated schedule for production and restoration.
181. According to UEC's mine plan, UEC will begin restoration operations in PA-1 promptly after mining.

B. Restoration Table

182. UEC's proposed restoration table for PA-1 is contained in the PAA-1 Application and in the draft PAA, UR03075PAA1 (PAA1), as Attachment 6.

Parameters

183. UEC's proposed restoration table includes all parameters in the suite established in accordance with the requirements of 30 TAC § 331.104(b).
183. a. UEC requested that ammonia, cadmium, lead and mercury be excluded from the restoration table.
 183. b. Ammonia, cadmium, lead and mercury are not suitable restoration parameters because (1) they do not occur in the production zone; (2) these elements are not included in the proposed injection solution; (3) they are not subject to being dissolved by mining solutions (because they are not in the production zone), and (4) extensive water quality sampling indicates that these elements are not in the aquifer in general.

Values

184. TCEQ's application form instructs applicants to base the restoration table on the required groundwater analysis report summary. The format of the groundwater analysis report summary is dictated by Figure 3, which is attached to the application form.
185. The values in UEC's restoration table included in its PAA-1 Application consist of the column headed production area average for parameters shown on the production area baseline water quality table, which is included in the draft PAA as Attachment 4A.
186. The values in UEC's restoration table included in its PAA-1 Application were derived from groundwater samples collected at the eighteen baseline wells for PA-1, consisting of PTW-1 through PTW-14 and RBL Wells 1, 3, 4 and 5.
187. When UEC sampled PTWs 7-14, the PAA-1 Application was still in the technical review phase.
188. The restoration values in UEC's restoration table included in its PAA-1 Application are the mean concentration or value for each parameter based on all measurements from groundwater samples collected from baseline wells at the time that the draft PAA was issued. After issuance of the draft PAA, UEC took and analyzed additional groundwater samples (referred to as rounds 2 and 3) from its baseline wells in PA-1.

189. The restoration values in the restoration table attached hereto as Attachment 6 in Exhibit D are the mean concentration or value for each parameter based on all measurements from groundwater samples collected from the PA-1 baseline wells, including (a) those collected at the time that the draft PAA was issued and (b) those collected in rounds 2 and 3.

C. Baseline Table

190. UEC's baseline groundwater summary table for PA-1 is contained in Chapter 6 of its PAA-1 Application and in Attachments 4A and 4B of the draft PAA, UR03075PAA1 (PAA1).
191. The findings of fact set forth in and/or incorporated into Section V.C. are incorporated by reference herein.

The Groundwater Quality Data from Which the Baseline Table in the PAA-1 Application Was Derived (First Round)

192. The baseline groundwater summary table in the PAA-1 Application contains values derived from (a) 22 mine area monitor wells completed in the production zone (BMW-1 through BMW-22); (b) 18 baseline wells completed in the production zone within the production area (PTW-1 through PTW-14; RBLB-1; RBLB-3 through RBLB-5); and (c) nine mine area monitor wells completed in the nonproduction zone (OMW-1 through OMW-9).
193. The baseline groundwater summary table contains: a) the averages and ranges of the parameter values determined for the designated production zone monitor wells (BMW-1 through BMW-22), which are monitor wells completed in the production zone; (b) the averages and ranges of the parameter values determined from eighteen designated production zone wells in the production area (PTW-1 through PTW-14; RBLB-1; RBLB-3 through RBLB-5), which are baseline wells completed in the production zone within the production area; and (c) the averages and ranges by zone of the parameter values determined for designated nonproduction zone monitor wells (OMW-1 through OMW-9), which are monitor wells completed in nonproduction zone.
194. The water samples from which the baseline table in the PAA-1 Application was derived are representative of groundwater quality in the areas where they were collected.

The Values in the Baseline Table in the PAA-1 Application

Production Zone Monitor Wells (BMW-1 through BMW-22)

195. The water samples obtained from the designated production zone monitor wells (BMW-1 through BMW-22) and used to derive the data included in the baseline groundwater summary table are representative of groundwater quality in the area of the monitor well ring surrounding PA-1.

196. This data establishes an average value for radium-226 of 12.1 pCi/l, which exceeds the EPA drinking water standard for radium-226 (5 pCi/l).

Nonproduction Zone Monitor Wells (OMW-1 through OMW-9)

197. The water samples obtained from the designated nonproduction zone monitor wells (OMW-1 through OMW-9) and used to derive the data included in the baseline groundwater summary table are representative of groundwater quality in Sand A overlying the PA-1 production area.
198. This data establishes an average value for arsenic of .018 mg/l, which exceeds the EPA drinking water standard for that constituent (.010 mg/l). With the exception of one well, all of the OMWs have arsenic values in excess of the .010 mg/l standard.

Production Zone Baseline Wells (PTW-1 through PTW-14; RBLB-1; RBLB-3 through RBLB-5)

199. The water samples obtained from the eighteen baseline wells (PTW-1 through PTW-14; RBLB-1; RBLB-3 through RBLB-5) and used to derive the data included in the baseline groundwater summary table are representative of groundwater quality in the areas where UEC plans to mine.
200. This data establishes an average value for radium-226 of 1684.0, which greatly exceeds the EPA drinking water standard of 5 pCi/l for radium-226. Every one of the baseline wells has a radium-226 value in excess of the 5 pCi/l standard. The lowest value is 10 pCi/l.

201. This data establishes an average value for uranium of .804 mg/l, which exceeds the EPA drinking water standard of .03 mg/l for uranium.

Later Sampling (Second and Third Rounds)

202. Constituent values in groundwater (including values for uranium and radium-226) naturally vary over time, even in the same location.
203. The variance in uranium levels between the sampling rounds is consistent with natural conditions and natural variability.
204. The variance in radium-226 levels between the sampling rounds is consistent with natural conditions and natural variability.
205. The baseline groundwater summary tables attached hereto as Attachments 4A and 4B in Exhibit D include values from all groundwater samples collected from baseline wells, including those collected at the time that the draft PAA was issued and those collected in rounds 2 and 3.
206. The water samples collected in rounds 2 and 3 are representative of groundwater quality in the areas where they were collected.

D. Control parameter upper limits

207. UEC's proposed upper limits control parameters are contained in Table 6.5 in the PAA-1 Application and Attachment 5 of the draft PAA, UR03075PAA1 (PAA1).
208. The control parameters proposed by UEC and set forth in the draft PAA are chloride and conductivity.
209. The control parameter upper limits for the production zone monitor wells (BMWs) were calculated by adding 25% to the highest recorded values for chloride and conductivity from those wells, BMW-1 through BMW-22.
210. The control parameters for the nonproduction zone monitor wells (OMWs) were calculated by adding 25% to the highest value recorded for chloride and conductivity from the those wells, OMW-1 through OMW-9.
211. Chloride and conductivity will provide timely detection of any migration of mining fluids.
- Because of the production process, the mining fluid will contain elevated levels of chlorides.
 - Conductivity and chloride are conservative parameters in that they move with the groundwater without undergoing retardation.
212. As shown on Attachment 5 in Exhibit D, the highest values for the control parameters—chloride and conductivity—are different than the values listed in the draft PAA-1 and the PAA-1 Application due to the incorporation of the additional two sample sets, rounds 2 and 3. The upper limits control parameters contained in Attachment 5 in Exhibit D hereto are based upon the revised tables attached hereto as Attachments 4A and 4B in Exhibit D, and thus incorporate those differences.

E. Monitor wells

213. The monitor wells for PA-1 are described in the PAA-1 Application and the draft PAA, UR03075PAA1 (PAA1).
214. The hydrologic test results and interpretation are included in the PAA-1 Application.

Production Zone Monitor Wells (BMW-1 through BMW-22; GW-1; GW-2)

215. UEC has installed twenty-two production zone monitoring wells, BMW-1 through BMW-22. These wells form a ring around the outside of the production area for PA-1, and each one is completed in Sand B, where the mining is proposed to occur.
216. Each of the BMWs was installed in accordance with the applicable TCEQ standards. Each well was properly cased and cemented from bottom to top.

217. Each of the BMWs are located within 400 feet from the production area for PA-1.
218. The angle formed by lines drawn from any one of the BMWs to the nearest BMW is not greater than 75 degrees. The spacing of the monitor wells is adequate to intercept excursions.
219. The hydrologic test results demonstrate that the BMWs are hydraulically connected to the production area.
220. Pursuant to the draft PAA-1, UEC will also install two additional production zone monitoring wells, GW-1 and GW-2, prior to the commencement of mining operations in PA-1. GW-1 and GW-2 will be located approximately 80 feet inside the monitor well ring and will provide additional monitoring protection. An excursion in this location would be detected in the GWs before it would hit the monitor ring wells.

Nonproduction Zone Monitor Wells (OMW-1 through OMW-9)

221. UEC has installed nine (9) nonproduction zone monitor wells, OMW-1 through OMW-9.
222. Each of the OMWs was installed in accordance with applicable TCEQ standards.
223. Each of these wells is located inside the production area for PA-1 and is completed in Sand A.
224. The PA-1 production area is approximately 36 acres. Thus, there is one OMW per every four acres of production area.

Buffer Zone

225. All designated monitoring wells (BMWs, GWs and OMWs) are located at least 100 feet inside the boundary of the Mine Permit Area.

F. Cost estimates for aquifer restoration and well plugging and abandonment

226. UEC meets the applicable requirements for financial assurance under TEX. WATER CODE §§ 27.051, 27.073, and 30 TAC Chapters 37 and 331.
227. UEC's cost estimates for aquifer restoration and well plugging and abandonment for PA-1 are contained in the PAA-1 Application and in the draft PAA, UR03075PAA1 (PAA1), and they comply with all applicable regulatory requirements.
228. The cost estimate covers the plugging of monitor wells, baseline wells and injection/production wells in accordance with the closure plan, including all costs related thereto. The cost estimate accounts for the quantity of cement needed to cement each well from bottom to top, which will prevent movement of fluids through the wells out of the injection zone or to the land surface.

229. The cost estimate also includes a detailed estimate for the cost of restoration of groundwater in PA-1, including all costs related thereto. The estimate accounts for pumping and electrical costs, treatment costs, repairs and maintenance, labor, laboratory analysis, and operating expenses, while taking into account number and size of well patterns, screen lengths, effective porosity and a flare factor.

G. Other information required to evaluate the application

230. UEC included all applicable information required by the ED in its PAA-1 Application and its response to the ED's notice of deficiency.
231. UEC included all applicable information required by the instructions on the PAA application form promulgated by the Commission.
- a. UEC provided a map that locates and identifies the lease area, permit area, and existing and proposed production areas with respect to easily identifiable landmarks such as towns or main roads. This information is contained in Chapter 1.0 and Figure 1-3, Mine Location Map.
 - b. UEC provided an oriented drawn to scale map locating all monitor wells, production wells, and baseline wells, and indicating acreage of the permit area, mine area, depth to the top of the production zone, and elevation of the production zone. This information is contained in Chapter 1.0 and Figure 1-4, Production Area Map.
 - c. UEC provided detailed cross-sections along the dip and strike accurately identifying all overlying aquifers, the first underlying aquifer, and the geologic interval to be mined. The geologic interval identified as the "production zone" will be the zone authorized for production by the proposed authorization. The lithologic columns are supported with electric logs, and the piezometric levels are indicated. This information is contained in Chapter 3.0 and Figures 3-1 through 3-5a.
 - d. UEC provided a written description of the geology and hydrology of the mine area, which is supported with maps, cross-sections showing geologic units, lithology, structural features, and other pertinent information. For hydrologic verification, a description of the major aquifer, hydraulic gradient, water quality indicators (*i.e.*, TDS, Na, SO₄) for the mine area, and other pertinent information are included. This information is contained in Chapters 3.0 and 5.0.
 - e. UEC provided maps showing piezometric levels and TDS contours for production and non-production zone aquifers with baseline wells located and identified. This information is contained in Chapter 5.0 and associated contour maps showing TDS and piezometric levels.
 - f. UEC provided all required information regarding each of the monitor wells and the baseline wells completed in the production and non-production aquifers. This information is contained in Chapters 5.0 and 6.0.

g. UEC provided a Restoration Progress Report:

- 1) A description of restoration procedures or restoration demonstration procedures, proposed, in progress, or completed.
- 2) A description of the restoration progress that currently has been achieved.
- 3) A description of the fluid handling capacity of the disposal facilities required to accomplish restoration using the proposed restoration procedure within the time frame specified in the mine plan. This information is contained in Chapter 7.0.

h. UEC provided a detailed calculation and tabulation of the volume of fluids to be handled by storage and disposal facilities at their maximum, and comparative capacity of the facilities that will be available. This information is contained in Chapter 7.0 and Table 7.2, Updated Fluid Handling Requirements vs. Capacity.

H. Whether the application for PAA-1 complies with all applicable statutory and regulatory requirements.

232. The PAA-1 Application complies with all applicable statutory and regulatory requirements.

VII. Other Findings

233. Based on the above findings of fact, the use or installation of the injection wells is in the public interest.

234. Based on the above findings of fact, no existing rights, including, but not limited to, mineral rights, will be impaired.

235. Based on the above findings of fact, both groundwater and surface fresh water can be adequately protected from pollution with proper safeguards. The draft Mine Permit and draft PAA-1 impose terms and conditions reasonably necessary to protect fresh water from pollution.

236. Based on the above findings of fact, UEC has made a satisfactory showing of financial responsibility to the extent required by Section 27.073 of the Texas Water Code.

237. Any Finding of Fact more appropriately considered a Conclusion of Law is hereby adopted as such.

CONCLUSIONS OF LAW

VIII. Jurisdiction

238. The Commission has jurisdiction over UEC's application for Class III UIC area permit UR03075, its request for an aquifer exemption, and its application for production area authorization UR03075PAA1 as part of the Commission's authority to permit Class III injection wells, pursuant to TEX. WATER CODE §§ 5.013(a)(8) and 27.011.

239. Based on the above Findings of Fact, public notice of UEC's application for Class III UIC area permit UR03075 and request for aquifer exemption and application for production area authorization UR03075PAA1 were provided as required by the TEX. WATER CODE and Title 30 of the Texas Administrative Code (TAC), and affected persons were provided an opportunity to request a hearing on UEC's Applications in the manner required by law.
240. The Commission has authority to hold hearings concerning UEC's Applications, pursuant to the provisions of TEX. WATER CODE §§ 5.102(b) and 27.018.
241. Proper notice of the hearing and the preliminary hearings was provided to affected persons pursuant to TEX. GOV'T CODE §§ 2001.051 and 2001.052 and TEX. WATER CODE § 27.018.
242. SOAH has jurisdiction to conduct a hearing and to prepare a PFD in this matter. TEX. GOV'T CODE § 2003.047.

IX. Burden of Proof

243. As to the Applications referred by the Commission to SOAH, UEC has the burden of proving that its application for Class III UIC area permit UR03075, its request for an aquifer exemption, and its application for production area authorization UR03075PAA1 comply with applicable law by a preponderance of the evidence. 30 TAC § 80.17(a).

X. Mine Application

A. Whether the use and installation of the injection wells are in the public interest under Texas Water Code §27.051(a). Public interest in regard to this issue includes whether UEC's mining operation or restoration activities will adversely impact the public interest by unreasonably reducing the amount of groundwater available for permitting by the Goliad County Groundwater Conservation District.

244. Based on the findings of fact set forth in and incorporated into Section V.A above, UEC's Mine Application is in the public interest consistent with the policy of the state as defined by the Legislature under TEX. WATER CODE § 27.051(a).
245. TCEQ rules require TCEQ to implement Chapter 27 of the Texas Water Code in a manner consistent with the policy of this state to: maintain the quality of fresh water in the state to the extent consistent with the public health and welfare and the operation of existing industries, taking into consideration the economic development of the state; prevent underground injection that may pollute fresh water; and require the use of all reasonable methods to implement this policy.
246. The scope of the public interest consideration must be appropriately limited so that it does not conflict with other law.

247. It is contrary to legislative intent and principles of statutory interpretation to interpret a more general statutory requirement, like the public interest requirement, to override more specific law--such as the rule of capture and the exemption from groundwater conservation district regulation of groundwater used for *in situ* mining.
248. The Class III injection well requirements that apply to in situ mining do not regulate the volume of fresh water used by a permittee.
249. In Texas, groundwater law is based upon the "rule of capture."
250. Texas Water Code Section 36.117(l) specifically states that Chapter 36 of the Texas Water Code does not apply to production or injection wells drilled for uranium.

B. Does the Applicant's compliance history require denial of the application under TEX. WATER CODE § 27.051(e) and 30 TAC Chapter 60?

251. Based on the findings of fact set forth in Section V.B above, UEC's compliance history does not require denial of the Mine Application under TEX. WATER CODE § 27.051(e) and 30 TAC Chapter 60.
252. Section 60.2 sets forth the method by which a person's compliance history is classified – i.e., as "high," "average" or "poor." Section 60.2 provides that "[i]f there is no compliance information about the site at the time the executive director develops the compliance history classification, then the classification shall be designated as 'average performer by default.'"
253. The compliance history prepared by the ED was prepared in accordance with Texas Water Code § 27.051(e) and 30 TAC Chapter 60.

C. Does the application adequately and accurately describe baseline conditions of the groundwater in the proposed permitted area under applicable requirements of 30 TAC Chapter 331?

254. Based on the findings of fact set forth in Section V.C above, the Mine Application adequately and accurately describe baseline conditions of the groundwater in the proposed Mine Permit Area under applicable requirements of 30 TAC Chapter 331.
255. There are no TCEQ rule requirements for establishing baseline conditions as part of the Class III application, but baseline quality is defined as "[t]he parameters and their concentrations that describe the local groundwater quality of an aquifer prior to the beginning of injection operations." 30 TAC § 331.2(12).

D. Does the application meet all applicable criteria of 30 TAC § 331.122, related to required consideration by the Commission prior to issuing a Class III Injection Well Area Permit?

256. Based on the findings of fact set forth in Section V.D above, the Mine Application meets all applicable criteria of 30 TAC § 331.122, related to required consideration by the Commission prior to issuing a Class III Injection Well Area Permit.

257. Section 331.122 provides a list of items the Commission shall consider in its administrative and technical review before issuing an area permit.

E. Has the Applicant demonstrated that the proposed exempted aquifer meets the applicable criteria of 30 TAC § 331.13?

258. Based on the findings of fact set forth in Section V.E above, UEC has demonstrated that the proposed exempted aquifer meets the applicable criteria of 30 TAC § 331.13. This conclusion is further supported by the holding in *Western Nebraska Resources Council v. United States Environmental Protection Agency*, 943 F.2d 867, 870 (8th Cir. 1991).

259. For a portion of an aquifer to be exempted, Section 331.13 requires that the portion of the aquifer (1) not currently serve as a source of drinking water for human consumption; and (2) will not in the future serve as a source of drinking water for human consumption for one or more specified reasons. 30 TAC § 331.13(c)(1),(2).

260. The test for the first subpart (*i.e.*, that the portion of the aquifer not currently serve as a source of drinking water) is whether or not anyone is "currently using water for human consumption from the [aquifer] in the specific lateral boundary" of the proposed exemption area. 50 Fed. Reg. 5253 (February 7, 1985), at 5253; 55 Fed. Reg. 21191 (May 23, 1990), at 21192.

261. The second subpart under Section 331.13 is that the portion of the aquifer sought to be exempt will not in the future serve as a source of drinking water for human consumption for one or more specified reasons. Those reasons include:

(A) It is mineral, hydrocarbon or geothermal energy bearing with production capability;

... or

(C) It is so contaminated that it would be economically or technologically impractical to render the water fit for human consumption.

30 TAC § 331.13(c)(2)(A), (C).

262. No designation of an exempted aquifer shall be final until approved by the EPA as part of the delegated Underground Injection Control Program.

F. Is the application sufficiently protective of groundwater quality?

263. Based on the findings of fact set forth in and/or incorporated into Section V.F above, the Mine Application is sufficiently protective of groundwater quality.

G. Does the application adequately characterize and describe the geology and hydrology in the proposed permit area, including fault lines, under the applicable rules?

264. Based on the findings of fact set forth in and/or incorporated into Section V.G above, the Mine Application adequately characterizes and describes the geology and hydrology in the proposed permit area, including fault lines, under the applicable rules.
265. Section 331.122(2)(A) requires a map showing "faults, if known or suspected. Only information of public record is required to be on this map" 30 TAC § 331.122(2)(A).

H. Do the geologic and hydraulic properties of the proposed permit area indicate that the Applicant will be able to comply with rule requirements?

266. Based on the findings of fact set forth in and/or incorporated into Section V.H above, the geologic and hydraulic properties of the proposed permit area indicate that the Applicant will be able to comply with rule requirements.
267. Hydrologic testing is not required for a Class III Underground Injection Control permit, although an applicant must provide a description of the proposed hydrologic testing program. 30 TAC § 331.122(2)(G).
268. Prior to conducting any mining operations near the Northwest Fault, UEC will have to apply for, and the Commission will have to issue one or more PAAs in addition to the PAA for PA-1.
269. The results of the hydrologic testing program must be submitted with an application for a PAA, which is needed to mine an ore body within an area permit. 30 TAC § 305.49(b)(6).

I. Does the Applicant meet the applicable requirements for financial assurance under Texas Water Code §§ 27.051, 27.073, and 30 TAC Chapters 37 and 331?

270. Based on the findings of fact set forth in Section V.I above, the Applicant meets the applicable requirements for financial assurance under Texas Water Code §§ 27.051, 27.073, and 30 TAC Chapters 37 and 331.
271. Applicable law does not require UEC to include estimated restoration costs for all production areas, and the assertion to the contrary is not supported by the plain meaning of the applicable TCEQ rules.
272. Section 27.051(a)(4) of the Texas Water Code provides that a permit may be issued if the Commission finds that the applicant has made a satisfactory showing of financial responsibility if such showing is required by Section 27.073.
273. Section 27.073(a-1), in turn, requires a person to whom an in situ uranium mining injection, monitoring or production well permit is issued to maintain financial security to ensure that each abandoned well is properly plugged.

274. Chapter 37 of the TCEQ rules describes acceptable forms of financial assurance, specifies the precise wording of the various instruments that may be used, and imposes requirements to insure that the issuer or trustee of the instrument is solvent and financially and otherwise qualified to perform if called upon. 30 TAC §§ 37.71, 37.201, 37.231, 37.211, 37.301, 37.321, 37.331.
275. In addition, Section 37.7021 of Chapter 37 addresses the timing of the provision of financial assurance. It provides that financial assurance for well plugging and abandonment must “be in effect before commencement of drilling operations.” 30 TAC § 37.7021(c).
276. Section 331.143 of the TCEQ rules requires (a) the preparation of a written cost estimate of plugging the wells; (b) that this cost estimate take into account all applicable costs and be kept at the facility for the life of the project; and (c) that this cost estimate be reviewed and updated as necessary on an annual basis, including adjustments for inflation.
277. Section 331.143 also incorporates by reference the requirements listed in Sections 331.46 and 331.86. Section 331.46 contains requirements that well plugs shall not allow the movement of fluids through the wells, out of the injection zone or to the land surface and shall consist of cement or an equally protective material; closure plans must demonstrate that no movement of contaminants that will cause pollution from the production zone into a USDW will occur; and lists factors for consideration in determining the adequacy of plugging and abandonment plans.
278. Section 331.86 lays out the timeframe for effectuating plugging and abandonment and requires written acknowledgment from the ED after the fact. Under Section 331.144, financial assurance cannot be released without the written approval of the ED.

J. Is the application sufficiently protective of surface water quality?

279. Based on the findings of fact set forth in Section V.J above, the Mine Application is sufficiently protective of surface water quality.
280. In the context of in situ uranium mining, an RML is a license that authorizes the possession, receipt, processing, and temporary storage of natural uranium prior to transfer to authorized recipients. 30 TAC §§ 336.1, 336.211. An RML also authorizes temporary storage of byproduct material (waste) prior to transfer to authorized recipients and authorized disposal facilities. *Id.* at § 336.1101.
281. The RML application process focuses on facility design and standard operating procedures that ensure the safety of workers, the environment and members of the public from radiation exposure. 30 TAC § 336.304.
282. Applicants for an RML must examine levels of radiological exposure to facility workers and members of the public via various pathways, including surface water. 30 TAC §§ 336.301 – 336.368 (Subchapter D, Standards for Protection Against Radiation).

283. An integral part of an RML application includes Operational Safety and Emergency Procedures to specifically address potential exposure to employees and the public; it also provides procedures for ensuring that potential exposures are minimized to the lowest extent possible. 30 TAC § 336.210.

K. Are local roadways sufficient to handle traffic to and from the proposed facility?

284. Based on the findings of fact set forth in Section V.K above, local roadways are sufficient to handle traffic to and from the proposed facility.

L. Whether UEC's proposal for restoration of groundwater to baseline levels as contained in the permit application is reasonable and adequate.

285. Based on the findings of fact set forth in Section V.L above, UEC's proposal for restoration of groundwater to baseline levels as contained in the permit application is reasonable and adequate.

M. Will the Applicant's proposed activities negatively impact livestock and wildlife, including endangered species?

286. Based on the findings of fact set forth in and/or incorporated into Section V.M above, the Applicant's proposed activities will not negatively impact livestock and wildlife, including endangered species.

287. Applicants for an RML must examine levels of radiological exposure to facility workers and members of the public via various pathways such as air, soils, surface water, and food chain (crops, cattle, etc.). 30 TAC §§ 336.301 – 336.368 (Subchapter D, Standards for Protection Against Radiation).

N. Will the Applicant's proposed activities negatively impact the use of property?

288. Based on the findings of fact set forth in and/or incorporated into Section V.N above, the Applicant's proposed activities will not negatively impact the use of property.

289. TCEQ does not have jurisdiction to consider effects on property values when determining whether to approve or deny a Class III injection well application.

290. The issuance of an injection well permit "does not convey any property rights of any sort" and "does not authorize any injury to persons or property or an invasion of other property rights, or any infringement of state or local law or regulations." 30 TAC § 305.122 (b)-(c); *see also id.* § 305.125(16) (providing that all injection well permits must include a condition stating that it "does not convey any property rights of any sort, or any exclusive privilege").

O. Will the Applicant's proposed activities adversely affect public health and welfare?

291. Based on the findings of fact set forth in and/or incorporated into Section V.O above, the Applicant's proposed activities will not adversely affect public health and welfare.

P. Whether the proposed mining is in the recharge zone of the Gulf Coast Aquifer (Evangeline component).

292. There is no statute or rule prohibiting in situ mining within an aquifer recharge zone.

Q. Whether the Gulf Coast Aquifer is a confined aquifer in the areas of Goliad County where UEC will conduct UIC activities.

293. There is no statutory or regulatory prohibition against conducting in situ uranium mining in an unconfined aquifer.

R. Whether mining fluids will migrate vertically or horizontally and contaminate an USDW (underground source of drinking water).

294. Based on the findings of fact set forth in and/or incorporated into Section V.R above, mining fluids will not migrate vertically or horizontally and contaminate an USDW.

295. The version of TRC's plugging rule in effect at the time of the contested case hearing, 16 TAC § 11.139, became effective on May 7, 1982, and required that boreholes be plugged in a manner that prevents the mixing of water from different sand units within the hole.

296. Prior to commencing mining operations in any additional production area(s), UEC will have to apply for, and the Commission will have to issue a production area authorization. To obtain a production area authorization, an applicant must design and conduct a hydrologic testing program for the production area in which it seeks authorization to mine and must submit the results of such hydrologic testing as a part of its PAA application.

S. Whether there are any USDWs within the injection zones proposed by UEC.

297. Under the TCEQ rules, a USDW is an aquifer or its portions (A) which supplies drinking water for human consumption; or (B) in which the groundwater contains fewer than 10,000 milligrams per liter total dissolved solids; and (C) which is not an exempted aquifer. 30 TAC § 331.2(107).

T. Whether any USDWs within Goliad County will be adversely impacted by UEC's proposed in situ uranium operations.

298. Based on the findings of fact set forth in and/or incorporated into Section V.T above, no USDWs within Goliad County will be adversely impacted by UEC's proposed in situ uranium operations.

299. Once an aquifer exemption is issued, the exempted aquifer is no longer a USDW.

U. Whether there is a "practical, economic and feasible alternative to an injection well reasonably available" within the meaning of that term as set forth in TWC § 27.051(d)(2).

300. Based on the findings of fact set forth in Section V.U above, there is no “practical, economic and feasible alternative to an injection well reasonably available” within the meaning of that term as set forth in TEX. WATER CODE § 27.051(d)(2).
301. Section 27.051(d) of the Texas Water Code provides that in determining if the use or installation of an injection well is in the public interest, the Commission must consider whether there is an alternative to “an injection well,” not whether there is an alternative to the proposed injection well location.

XI. PAA-1 Application

A. Mine Plan

302. Based on the findings of fact set forth in and/or incorporated into Section VI.A above, the PAA-1 Application’s mine plan complies with all applicable regulatory requirements.
303. A mine plan is defined as a plan for operations at a mine, consisting of: (A) a map of the permit area identifying the location and extent of existing and proposed production areas; and (B) an estimated schedule indicating the sequence and timetable for mining and any required aquifer restoration. 30 TAC § 331.2(63).

B. Restoration Table

304. Based on the findings of fact set forth in and/or incorporated into Section VI.B above, the PAA-1 Application’s restoration table complies with all applicable regulatory requirements.
305. A restoration table must include all parameters in the suite established in accordance with the requirements of 30 TAC §331.104(b). 30 TAC § 331.107(a)(1).
306. Under 30 TAC § 331.104(b), any of the parameters in the suite, except for uranium and radium-226, may be removed from the list of restoration parameters if an applicant can demonstrate that a parameter or parameters is not a suitable restoration parameter.
307. When UEC filed its PAA-1 Application, the TCEQ regulations required that each production area authorization contain a restoration table developed by using either:
- (1) the higher value in either the column headed mine area average or the column headed production area average for parameters shown on the production area baseline water quality form for the production zone; or
 - (2) predictions of restoration quality that are reasonably certain after giving consideration to the factors specified in §331.107(f) of this title (relating to Restoration).

30 TAC § 331.104(d) (West 2008).

308. Under the current TCEQ regulations, the restoration values shall consist of either:

- (a) the mean concentration or value for that parameter based on all measurements from groundwater samples collected from baseline wells prior to mining activities; or
- (b) a statistical analysis of baseline well information proposed by the owner or operator and approved by the executive director that demonstrates that the restoration table value is representative of baseline quality.

30 TAC § 331.107(a)(1).

C. Baseline water quality table

309. Based on the findings of fact set forth in and/or incorporated into Section VI.C above, the PAA-1 Application's baseline table complies with all applicable regulatory requirements.

310. A baseline water table must be submitted with an application for a production area authorization. 30 TAC § 305.49(b)(3).

311. The baseline water table or groundwater analysis report summary serves as the basis for the restoration table. Figure 3 of the application form promulgated by the Commission sets forth the format of the groundwater analysis report summary.

312. When UEC filed its PAA-1 Application, the TCEQ regulations required one or more samples from each designated monitor well (production and nonproduction zone) and each designated production well in the production area, to be summarized as follows:

- (1) mine area baseline-the averages and ranges of the parameter values determined for the designated production zone monitor wells;
- (2) production area baseline-the averages and ranges of the parameter values determined from at least five designated production zone wells in the production area; and
- (3) nonproduction zone baseline-the averages and ranges by zone of the parameter values determined for designated nonproduction zone monitor wells.

30 TAC § 331.104 (West 2008).

313. The requirements of the current TCEQ regulations are similar in many ways, specifying independent and representative samples from:

- (1) mine area monitor wells completed in the production zone;
- (2) mine area monitor wells completed in nonproduction zones; and
- (3) baseline wells completed in the production zone within the production area.

30 TAC § 331.104(a).

314. Under the current TCEQ regulations, however, the number of wells must be "a minimum of five baseline wells, or one baseline well for every four acres of production area,

whichever is greater . . . completed within the production zone of the production area.” 30 TAC § 331.104(c).

315. UEC was not obligated to amend its PAA-1 Application to include water quality data obtained after issuance of the draft PAA.
316. Baseline wells must be completed “in the production zone.” 30 TAC § 331.104(a)-(b). The TCEQ regulations do not require that the wells be fully screen across the entire thickness of the sand unit.

D. Control parameter upper limits

317. Based on the findings of fact set forth in and/or incorporated into Section VI.D above, the PAA-1 Application’s proposed control parameter upper limits comply with all applicable regulatory requirements.
318. The draft PAA, UR03075PAA1 (PAA1), establishes conductivity and chloride as the two control parameters to be used, and prescribes the manner of calculation for the upper limit values to be used in production and non-production zones.
319. Control parameter upper limits for production zone monitor wells are to be derived from pre-mining groundwater sample data from production zone monitor wells, and control parameter upper limits for nonproduction zone monitor wells are to be derived from pre-mining groundwater sample data from nonproduction zone monitor wells. 30 TAC § 331.104(e).
320. The PAA application form promulgated by the Commission instructs applicants to provide a proposed control parameter table based on the groundwater analysis summary table with the control parameter upper limit being either 25% or 5 mg/l above the highest value for each control parameter.

E. Monitor wells

321. Based on the findings of fact set forth in and/or incorporated into Section VI.E above, the monitor wells for the proposed production area comply with all applicable regulatory requirements.
322. The number, placement and construction of the monitor wells conforms to the requirements of Sections 331.82, 103 and 104; all applicable requirements have been met.

Production Zone Monitor Wells (BMW-1 through BMW-22; GW-1; GW-2)

323. “Designated production zone monitor wells shall be spaced no greater than 400 feet from the production area, as determined by exploratory drilling. . . . The angle formed by lines drawn from any production well to the two nearest monitor wells will not be greater than 75 degrees.” 30 TAC § 331.103(a).

Nonproduction Zone Monitor Wells (OMW-1 through OMW-9)

324. "At a minimum, designated nonproduction zone monitor wells shall be completed in the production area in any freshwater aquifer overlying the production zone. These wells shall be located with a minimum of one per every four acres of production area for wells completed in the first overlying freshwater aquifer" 30 TAC § 331.103(b).
325. The applicable regulatory requirements do not require monitoring in Sand C.

Buffer Zone

326. Designated monitoring wells must be installed at least 100 feet inside any permit area boundary.

F. Cost estimates for aquifer restoration and well plugging and abandonment

327. Based on the findings of fact set forth in and/or incorporated into Section VI.F above, UEC meets the applicable requirements for financial assurance under Texas Water Code §§ 27.051, 27.073, and 30 TAC Chapters 37 and 331.
328. The cost estimates for aquifer restoration and well plugging and abandonment related to the PAA-1 Application comply with all applicable regulatory requirements.
329. Section 331.143 of the TCEQ rules requires (a) the preparation of written cost estimates of plugging and abandonment and aquifer restoration; (b) that these cost estimates take into account all costs related to these activities and be kept at the facility for the life of the project; and (c) that these estimates be reviewed and updated as necessary on an annual basis, including adjustments for inflation.
330. UEC does not have to recalculate cost estimates for aquifer restoration due to the revision of the PAA-1 restoration table, but will be required to update such estimates under 30 TAC § 331.143(c).
331. Section 331.46 of the TCEQ rules contains requirements that well plugs shall not allow the movement of fluids through the wells, out of the injection zone or to the land surface and shall consist of cement or an equally protective material; closure plans must demonstrate that no movement of contaminants that will cause pollution from the production zone into a USDW will occur; and lists factors for consideration in determining the adequacy of plugging and abandonment plans.

G. Other information required to evaluate the application

332. Based on the findings of fact set forth in and/or incorporated into Section VI.G above, UEC included all of the additional applicable information required by the ED in its PAA-1 Application and its response to the ED's notice of deficiency.

333. Based on the findings of fact set forth in and/or incorporated into Section VI.G above, UEC included all of the additional applicable information required by the instructions on the PAA application form promulgated by the Commission.

334. Based on the findings of fact set forth in Section VI above, UEC submitted all data, information and items required by the applicable regulatory requirements related to the PAA-1 Application, and the Commission considered all such data, information and items.

H. Whether the application for PAA-1 complies with all applicable statutory and regulatory requirements.

335. Based on the findings of fact set forth in Section VI above, the PAA-1 Application complies with all applicable regulatory requirements.

XII. Transcript Costs

336. The following factors are to be considered in allocating reporting and transcription costs among the parties: (1) the party who requested the transcript, (2) the financial ability of the party to pay the costs, (3) the extent to which the party participated in the hearing, (4) the relative benefits to the various parties of having a transcript, (5) the budgetary constraints of a state or federal administrative agency participating in the proceeding, and (6) any other factor which is relevant to a just and reasonable assessment of costs. 30 TAC § 80.23(d).

337. Reporting and transcript costs shall be apportioned 75% to UEC and 25% to Protestants.

XIII. Other Conclusions

338. Based on the findings of fact set forth herein, the use or installation of the injection well(s) is in the public interest. TEX. WATER CODE § 27.051(a)(1).

339. Based on the findings of fact set forth herein, no existing rights, including, but not limited to, mineral rights, will be impaired. TEX. WATER CODE § 27.051(a)(2).

340. Based on the findings of fact set forth herein, both groundwater and surface fresh water can be adequately protected from pollution with proper safeguards. TEX. WATER CODE § 27.051(a)(3). The draft Mine Permit and draft PAA-1 impose terms and conditions reasonably necessary to protect fresh water from pollution.

341. Based on the findings of fact set forth herein, UEC has made a satisfactory showing of financial responsibility to the extent required by Section 27.073 of the Texas Water Code. TEX. WATER CODE § 27.051(a)(4).

342. Any Conclusion of Law more appropriately considered a Finding of Fact is hereby adopted as such.

EXPLANATION OF CHANGES

1. The ALJ's PFD at pages 68 and 136 suggests that UEC's financial assurance may need to be revisited in order to be consistent with the revised restoration table for PAA-1. However, the Commission determined that there is no need to revisit the cost estimates submitted with the applications through this contested case process due to the requirement in 30 TAC § 331.143 that those estimates be revisited on an annual basis. This decision is consistent with the arguments in the Executive Director's Reply to Exceptions as to this issue.
2. The ALJ's PFD at page 128 states that "the ALJ finds that the PAA-1 Application fails to comply with the statutory and regulatory requirements for the baseline water quality table and restoration table unless amended." First, the Commission notes that the baseline water quality and restoration tables have been amended, consistent with the recommendation to amend those tables submitted by the ALJ in his PFD. In addition, the Commission finds that the evidence in the record, including the data submitted for the both the original and amended baseline water quality and restoration tables, met the requirements of applicable TCEQ rules and statutes, for the reasons set forth by the Executive Director in his Exceptions.
3. Although the ALJ finds that "UEC's proposed installation and use of Class III injection wells for *in situ* mining of uranium are in the public interest, in accordance with the criteria in Texas Water Code § 27.051(a)", he also raises the caveat that "if the Northwest Fault is proven to be transmissive" and "the preponderance of the evidence is also negative," it would "tip the public interest scale toward a findings that the proposed *in situ* uranium mining is not in the public interest." See PFD at pp. 22-23. The ALJ also recommends remand back to SOAH on the transmissivity of the Northwest Fault. See PFD at p. 138. However, the Commission determines that no remand is necessary and finds that the injection wells are in the public interest and characterization of the Northwest Fault is not required with respect to the "proposed permit area", as that information will be provided at such time as the Applicant determines to submit applications for proposed production areas 2 through 4. Production Area No. PAA-1 does not include any permitted area near the Northwest Fault and concerns about the transmissivity of the Northwest Fault are appropriately addressed through any future production area authorizations that implicate, or are closer to, the fault. This decision is consistent with the Executive Director and Applicant's arguments in their respective Exceptions as to this issue.
4. Pursuant to 30 Texas Administrative Code §§ 50.117 and 80.126, the Commission shall consider all public comment in making its decision on an application and shall either adopt the Executive Director's Response to Public Comment or prepare its own response. At the February 23, 2011 Agenda, the Commission adopted the Executive Director's Responses to Public Comment on both the Class III Injection Well Permit/Aquifer Exemption and on Production Area Authorization No. 1. New Order Provision No. 1A is added to this Order to reflect the Commission's decision during its public meeting to adopt both the Executive Director's Responses to Public Comment.

5. For purposes of clarity, the Office of General Counsel has incorporated the adopted changes to the baseline water quality tables, control parameter upper limits table, and restoration table (Attachments 4A, 4B, 5, and 6 to Production Area Authorization 1) into Exhibit C, eliminated the incorrect tables from proposed "Exhibit C", and eliminated what is now a repetitive proposed "Exhibit D." The General Counsel has merged what was previously identified as "Exhibit C" and "Exhibit D" to the Applicant's Proposed Order into one complete Production Area Authorization No. 1 that contains the correct attachments/tables adopted by the Commission. This document is now attached to the Commission's Order as new Exhibit C. Ordering Provision No. 1 was also modified to correctly reference the appropriate Exhibits. The Office of General Counsel makes this change to the Applicant's Proposed Order consistent with the Commission's Resolution in Docket No. 2009-0059-RES dated February 2, 2009, which gives the General Counsel "authority to make clerical and clarification changes to Orders and documents adopted by the Commission, to effectuate the clear intent of the Commission's action taken."

NOW, THEREFORE, BE IT ORDERED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY THAT:

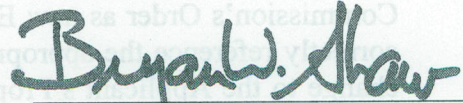
1. The applications of Uranium Energy Corp for Issuance of a Class III Injection Well Permit No. UR03075, Aquifer Exemption Order, and Production Area Authorization UR03075PAA1 in Goliad County, Texas, TCEQ Docket Nos. 2008-1888-UIC and 2009-1319-UIC, SOAH Docket Nos. 582-09-3064 and 582-09-6184 are approved in accordance with the terms and conditions contained in the attached Permit No. UR03075 (Exhibit A), Aquifer Exemption Order (Exhibit B), and Production Area Authorization UR03075PAA1 (Exhibit C).
- 1A. The Commission adopts the Executive Director's Responses to Public Comment for both the Class III Injection Well Permit/Aquifer Exemption and the Production Area Authorization in accordance with 30 TEX. ADMIN. CODE §§ 50.117 and 80.126.
2. UEC shall pay 75% (\$10,586.33) of the cost of reporting and transcription, and Protestants shall pay 25 % (\$3,528.77) of the cost of reporting and transcription of the hearing in this case, no later than thirty (30) days after the effective date of this Order.
3. The Chief Clerk of the TCEQ shall forward a copy of this Order and attached Permit, Aquifer Exemption Order, and Production Area Authorization as changed to conform to this Order to all parties and issue the attached Permit, Aquifer Exemption Order, and Production Area Authorization as changed to conform to this Order.
4. If any provision, sentence, clause or phrase of this Order is for any reason held to be invalid, the invalidity of such portion shall not affect the validity of the remaining portions of the Order.
5. The effective date of this Order is the date the Order is final, as provided by 30 TAC § 80.273 and § 2001.144 of the Administrative Procedure Act.

Issue Date:

MAR 07 2011

TEXAS COMMISSION ON

ENVIRONMENTAL QUALITY



Bryan W. Shaw, Ph.D, Chairman

NOW, THEREFORE, BE IT ORDERED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY THAT:

1. The applications of Uranium Energy Corp for issuance of a Class III Injection Well Permit No. UR03075, Aquifer Exemption Order, and Production Area Authorization UR03075PA1 in Goliad County, Texas, TCEQ Docket Nos. 2008-1888-UIC and 2009-1319-UIC, SOAH Docket Nos. 282-09-3064 and 282-09-6184 are approved in accordance with the terms and conditions contained in the attached Permit No. UR03075 (Exhibit A), Aquifer Exemption Order (Exhibit B), and Production Area Authorization UR03075PA1 (Exhibit C).
- 1A. The Commission adopts the Executive Director's Responses to Public Comment for both the Class III Injection Well Permit/Aquifer Exemption and the Production Area Authorization in accordance with 30 TEX. ADMIN. CODE §§ 50.117 and 80.126.
2. UEC shall pay 75% (\$10,286.33) of the cost of reporting and transcription, and Protestants shall pay 25% (\$3,228.77) of the cost of reporting and transcription of the hearing in this case, no later than thirty (30) days after the effective date of this Order.
3. The Chief Clerk of the TCEQ shall forward a copy of this Order and attached Permit, Aquifer Exemption Order, and Production Area Authorization as changed to conform to this Order to all parties and issue the attached Permit, Aquifer Exemption Order, and Production Area Authorization as changed to conform to this Order.
4. If any provision, sentence, clause or phrase of this Order is for any reason held to be invalid, the invalidity of such portion shall not affect the validity of the remaining portions of the Order.
5. The effective date of this Order is the date the Order is final, as provided by 30 TAC § 80.273 and § 2001.144 of the Administrative Procedure Act.

EXHIBIT A



**Texas Commission on
Environmental Quality**

Austin, Texas

AREA PERMIT NO. UR03075
Goliad Project In Situ Uranium Mine

AREA PERMIT to construct and operate
Class III underground injection wells for
in-situ recovery of uranium and groundwater
restoration under Chapter 27 Texas Water Code

I. Permittee: Uranium Energy Corp (UEC)
100 East Kleberg, Suite 310
Kingsville, TX 78363

II. Type of Permit: Initial X Amended _____ Renewal _____

III. Nature of Business: In Situ Uranium Mining

IV. General Description and Location of Injection Activity

The Goliad Project In Situ Uranium Mine (as shown in Attachment 1) is approximately 13 miles north of the city of Goliad, about 0.9 miles east of the intersection of State Highway 183 and Farm-to-Market Road 1961, in Goliad County. The permit area (as shown in Attachment 2A) for this site is a total of 1139.4 acres as documented in the metes and bounds description (Attachment 3). The production zones are in sands of the Pliocene Goliad Formation. These sands, designated "A", "B", "C", and "D" from shallowest to deepest, range in depth from 45 to 304 feet below land surface.

CONTINUED on Pages 2 through 13

The permittee is authorized to conduct injection activity in accordance with limitations, requirements, and other conditions set forth herein. This permit is granted subject to the rules and orders of the commission, and the laws of the State of Texas. The permit will be in effect for ten years from the date of approval or until amended or revoked by the commission. If this permit is appealed and the permittee does not commence any action authorized by this permit during judicial review, the term will not begin until judicial review is concluded.

ISSUED DATE:

For The Commission

UEC

Permit No. UR03075

Goliad Project In Situ Uranium Mine

Page 2

V. Standard Provisions

A. Production Area Authorization

1. Mining in a production area within the permit area (Attachment 2A) requires a production area authorization (PAA) from the Texas Commission on Environmental Quality (TCEQ). Mining shall not begin until the production area authorization is obtained.
2. Each PAA shall include an updated Mine Plan (as provided in Attachments 2A and 2B), and be in accordance with 30 TAC §305.155.

B. Mechanical Integrity

1. In compliance with 30 TAC §331.43(d), 30 TAC §331.82, 30 TAC §331.85, and as specified in the application, proof of mechanical integrity for all Class III wells shall be demonstrated by well completion (cementing) records and by a pressure test. Information required to demonstrate mechanical integrity shall be reported to the executive director before injection of mining solution.
2. A pressure test shall also be conducted each time a tool that could affect mechanical integrity is run into the well in accordance with 30 TAC §331.82(c)(2).

C. Operating Requirements

1. Mining solutions shall be confined to the production zone within the area of designated production zone monitor wells in accordance with 30 TAC §331.102. This shall be accomplished in each production area by a rate of withdrawal of water that exceeds the rate of injection of water.
2. Monitor wells shall be positioned to provide horizontal and vertical surveillance of groundwater quality to monitor confinement of the mining solutions in accordance with 30 TAC §§331.82(g) and 331.103.
3. Before making any modification in the composition of the mining solutions from that described in the application incorporated by Provision VIII.B., the permittee shall provide adequate descriptive information and obtain authorization by permit amendment or modification.
4. The fluid used for uranium mining shall consist of native groundwater supplemented with bicarbonate ions, sodium hydroxide, and oxygen or hydrogen peroxide.
5. Discharge of fluids into the surface waters of the State is not authorized by this permit.

D. Wellhead Pressure

1. Pressure gauges shall be installed, easily readable, and maintained in working condition on all injection wells or on the injection manifold with the maximum allowable injection pressure clearly marked on each gauge.
2. Wellhead pressures shall be limited to minimize the possibility of leakage from the production zone into the non-production zones. Injection pressures shall not exceed 0.40 psi per foot of well depth or the internal yield pressure of the casing.

E. Monitoring Parameter Upper Limits

1. Chloride, conductivity, and total dissolved solids shall be used as control parameters in monitoring for excursions of mining solutions from each production area. Upper limit concentrations that indicate the presence of an excursion shall be calculated for the production zone by adding 25% to the maximum values determined in the sampling of the production zone wells for each production area.

2. In the event of an excursion, as defined in provision V.G.2. of this permit and in 30 TAC §331.2, monitoring for uranium and radium²²⁶ shall be required. Sampling and analysis for uranium and radium²²⁶ shall be in accordance with provision V.G.2. of this permit.

F. Sampling, Preservation, Analysis and Quality Control

1. To obtain a valid sample, during completion each sample well shall be pumped until the water is free of mud and foreign material and until conductivity and pH are reasonably constant. As samples are taken during baseline, routine, and restoration sampling, the sampling method, as described in the application or subsequent amendments, shall assure that the water sampled is formation water. Excess water pumped from the production wells or monitor wells containing mining solutions shall not be discharged into the surface waters of the State.

2. a. Sample preservation, analysis and analytical quality control shall be as defined in the most recent issue of Methods for Chemical Analysis of Water and Wastes (EPA - Technology Transfer). Total Dissolved Solids shall be determined by evaporation at 180°C. All data submitted to the TCEQ shall be in a manner consistent with the latest version of the "Quality Assurance Project Plan for Environmental Monitoring and Measurement Activities Relating to the Resource Conservation Recovery Act and Underground Injection Control" (TCEQ QAPP), which applies to oversight responsibilities of all regulated entities conducting environmental activities.

- b. Any other method not specified in the referenced EPA document shall be approved by the executive director.

3. The permittee shall notify the Field Operations Division MC 174, P. O. Box 13087, Austin, TX 78711-3087 of intent to collect samples for baseline and final closing of each PAA at least two weeks before sample collection to allow the staff an opportunity to split samples for confirming analysis.

G. Monitoring and Reporting Requirements

1. Routine Mining Operations

- a. Water samples shall be taken at least twice each month at two-week intervals from all monitor wells for production areas in which mining solutions have been introduced, and shall be analyzed for the control parameters identified in Section V.F. of this permit and 30 TAC §331.105(1) and (2). This monitoring program shall be continued for each subject production area until the Field Operations Division, Region 14 – Corpus Christi Office, 6300 Ocean Dr., Unit 5839, Corpus Christi, TX 78412-5839 and Industrial and Hazardous Waste Permits Section, MC 130, P. O. Box 13087, Austin, TX 78711-3087 are officially notified that restoration has commenced.
- b. As required by 30 TAC §331.85(e), routine monitoring data shall be reported at least quarterly to the Field Operations Division, MC 174, P. O. Box 13087, Austin, TX 78711-3087 on a form provided by the executive director, in accordance with the form completion instructions and postmarked no later than the 10th day of the following reporting period.
- c. The permittee shall retain in an organized fashion and furnish to the TCEQ's representative, upon request, records of all monitoring information, copies of all reports and records required by this permit, for a period of at least 3 years from the date of the sample, measurement, report, record, certification, or application.
- d. In addition to the recordkeeping and reporting requirements specified elsewhere in this permit, the permittee shall maintain at the permitted mining site all data from monitoring and testing, inspections, and other records required by the provisions of 30 TAC Chapters 305 and 331 and the permit. These records will be made available to representatives of the TCEQ upon request.
- e. The permittee shall keep records throughout the term of the permit of data used to complete the final application, any supplemental information, and a copy of the issued area permit and PAAs. All copies of any renewals, amendments, revisions, and modifications must also be kept at the facility such that the most current documents are available for inspection at all times.

- f. All materials, including any related information submitted to complete the application shall be retained, not just those materials which have been incorporated into the permit as required by 30 TAC §305.47.

2. Excursions

- a. An excursion (defined by 30 TAC § 331.2 as the movement of mining solutions into a designated monitor well) is indicated by the sampled concentration of any control parameter provided in Section V.E.1. of this permit being equal to or above the upper limit established for the applicable PAA. Within two days of detecting an apparent excursion, the permittee shall repeat the sampling and complete a verifying analysis of the samples taken from each apparently affected well in accordance with 30 TAC §331.105(3).
- b. If the verifying analysis confirms the existence of an excursion, the permittee shall notify the Field Operations Division, Region 14 – Corpus Christi Office, by the next working day by telephone and by letter postmarked within 48 hours of identification of the excursion. The notification must identify the affected monitor well and the control parameter concentrations.
- c. While mining solutions are present in a designated monitor well, the permittee shall conduct sampling and analysis of each affected well at a frequency of at least two times per week in accordance with 30 TAC §331.105(4).
- d. Reporting shall be monthly according to 30 TAC §331.85(f) (by the second day after each sample is taken). Parameters analyzed and reported during periods of excursions shall consist of the control parameters specified in Provision V.E.1 of this permit plus uranium and radium²²⁶ as specified in Provision V.E.2. of this permit.

3. Restoration

- a. The executive director shall be notified when routine mining operations have ceased within a given production area and the permittee shall commence groundwater restoration according to 30 TAC §331.107(b).
- b. As specified in §331.105(2), regular monitoring shall be continued until the executive director has been officially notified that restoration has commenced. Sampling of monitor and baseline wells for the production area during restoration shall occur at least quarterly, and shall be analyzed for certain parameters provided in the Restoration Table for the applicable production area.

- c. Beginning six months after the date of initiation of restoration of a production area, the permittee shall provide to the Field Operations Division MC 174, P. O. Box 13087, Austin, TX 78711-3087 semi-annual restoration progress reports until restoration is accomplished for the production area.

4. Stability Sampling

- a. Upon performing groundwater restoration as required by 30 TAC §331.107(b) or as provided by §331.107(f), the permittee shall conduct stability sampling for the parameters listed in the Restoration Table from all production area baseline wells as required by 30 TAC §331.107(e).
- b. A minimum of three sample sets, taken at a minimum of 30-day intervals, shall be reported to the executive director over a period of one calendar year between cessation of restoration operations and the final set of stability samples in accordance with §331.107.
- c. Stability sampling shall comply with the requirements provided by 30 TAC §331.107(f), in the event the restoration table is amended.

5. Annual Report

By December 31st of each year, the permittee shall submit to the Industrial and Hazardous Waste Permits Section, MC 130, P. O. Box 13087, Austin, TX 78711-3087 an annual report. The annual report shall include:

- a. For injection wells, production wells, baseline wells, and monitor wells authorized under the Class III area permit and production area authorizations, the number and identity of wells plugged and wells constructed during the report period, and the total number of unplugged wells at the time of reporting;
- b. A revised calculation of plugging cost for unplugged wells as specified in subsection V.H.5.a. of this permit;
- c. An updated map and tabulation of newly constructed or newly discovered artificial penetrations of the subsurface within the area of review, and for such penetrations, assessment of need for corrective action under 30 TAC §331.44; and
- d. An updated mine plan showing the estimated schedule of the sequence and timing for mining and aquifer restoration in each production area authorization.

H. Plugging and Abandonment

1. All of the wells in each PAA associated with this permit, including baseline wells, monitor wells, and injection/production wells, shall be plugged in accordance with 30 TAC § 331.46 within 120 days of completion of final restoration of the each PAA unless revisions of the time requirements are approved by the executive director under 30 TAC § 331.86(a).
2. The permittee shall notify the executive director in writing at least two weeks before commencing plugging and abandonment.
3. Plugging and abandonment shall be accomplished according to the plans and specifications submitted in the application identified in Provision VIII.B and as modified by Provision V.H.5. Any revised, updated, or additional plugging and abandonment plans shall be approved by the executive director through the permit amendment or modification process.
4. Within 30 days after completion of well closure (plugging), a closure report shall be filed with the Industrial & Hazardous Waste Permits Section, MC 130, P. O. Box 13087, Austin, TX 78711-3087 in accordance with §331.46(m).
5. The wells shall be plugged and abandoned in accordance with the requirements of 30 TAC §331.86 and with the following requirements:
 - a. Removal of all equipment from the well;
 - b. Cementing the wellbore from total depth to the surface with a cement slurry with a weight of no less than 9.5 lbs/gallon;
 - c. Cutting and removal of the casing from a depth of 3 feet to the surface; and
 - d. Backfilling the hole with native soil, graded to approximately the natural contour of the land.
6. All production and injection wells that remain unplugged for use in restoration activities shall be temporarily capped in a manner to preclude the introduction of any material from the surface into the borehole.

VI. Radioactive Materials License

The permittee shall have a valid license(s) from the TCEQ covering the handling and processing of radioactive materials for this facility, prior to mining for the recovery of uranium. The primary and supporting production/processing facilities, along with supplies and materials used by or resulting from these facilities, are to be installed, operated, maintained and handled in accordance with the plans, specifications, and descriptions submitted as part of the application for commission licensing in order to prevent spills, discharges, or dispersion of any materials, directly or indirectly, to surface or ground waters.

VII. Financial Assurance

- A. The permittee shall secure and maintain in full force and effect at all times an acceptable financial assurance mechanism, following 30 TAC §§ 331.141 - 331.144, to provide for plugging and abandonment of the permitted Class III wells, baseline wells, and monitoring wells.
- B. The amount of financial assurance shall be updated annually for all production areas (PAs) to provide for adequate plugging and to reflect changes in the costs of materials and labor.
- C. This permit does not authorize underground injection of fluid unless the permittee has in effect an acceptable financial assurance mechanism as described above. Financial assurance shall be submitted at least 60 days prior to commencement of drilling operations in each PA and be effective before drilling begins in accordance with 30 TAC §37.7021(c).
- D. To obtain release of financial assurance, a professional engineer or professional geologist licensed in Texas shall certify that plugging and abandonment has been accomplished in accordance with the permittee's plugging and abandonment plan in accordance with 30 TAC §331.144.

VIII. Additional Provisions

- A. The following rules are incorporated as terms and conditions of this permit by reference:
 - 1. Financial Assurance of Underground Injection Control Wells
30 TAC Chapter 37 Subchapter Q;
 - 2. Consolidated Permits
30 TAC Chapter 305 Subchapters A, C, F, and H; and
 - 3. Underground Injection Control
30 TAC Chapter 331 Subchapters A, C, E, F, G, and I.
- B. This permit is based on, and the permittee shall follow the plans and specifications contained in the Class III Underground Injection Control Application dated July 27, 2007 and revised October 2, 2007, December 7, 2007, January 30, 2008, February 19, 2008, March 19, 2008, and April 3, 2008, which is hereby approved subject to the terms of this permit and any other

orders of the TCEQ. These materials are incorporated into this permit by reference as if fully set out herein. Any and all revisions to these elements shall become conditions of this permit upon the date of approval by the commission.

C. Acceptance of this permit by the permittee constitutes an acknowledgment and agreement that the permittee will comply with all the terms and conditions embodied in the permit, and the rules and other orders of the commission in accordance with 30 TAC §305.124.

D. This permit is subject to further orders and rules of the commission. In accordance with the procedures for amendments and orders, the commission may incorporate into permits already granted, any condition, restriction, limitation, or provision reasonably necessary for the administration and enforcement of Texas Water Code Chapters 27. Additionally, the permittee has a duty to comply with the following permit conditions:

1. Modification of Permitted Wells, Operational Methods, and Related Specifications

The wells and operational methods authorized are limited to those described herein and by the application submittals. All wells and operational methods are subject to the terms and conditions of this permit and TCEQ rules. Prior to constructing or operating any wells in a manner which differs from either the related plans and specifications contained in the permit application or the limitations, terms, or conditions of this permit, the permittee must comply with the TCEQ permit amendment or modification rules as provided in 30 TAC §§305.62 and 305.72, respectively.

2. Definitions

For purposes of this permit, terms used herein shall have the same meaning as those in 30 TAC Chapters 37, 305, and 331 unless this permit specifically provides otherwise; where terms are not defined in the regulations or the permit, the meaning associated with such terms shall be defined by a standard dictionary reference or the generally accepted scientific or industrial meaning of the term.

3. Permit Expiration

In order to continue a permitted activity after the expiration date of the permit the permittee shall submit an application for permit renewal at least 180 days before the expiration date of the effective permit, unless permission for a later date has been granted by the executive director in accordance with 30 TAC §305.65. Authorization to continue such activity will terminate upon the effective denial of said application.

E. This permit does not convey any property rights of any sort, nor any exclusive privilege, and does not become a vested right in the permittee in accordance with 30 TAC §§305.122(b) and 305.125(a)(16).

F. The issuance of this permit does not authorize any injury to persons or property or an invasion of other property rights, or any infringement of state or local law or regulations in accordance with 30 TAC §305.122(c).

G. In the event of conflict between the application, permit, rules, and statutory requirements the most stringent requirement shall apply in accordance with 30 TAC §305.154(a).

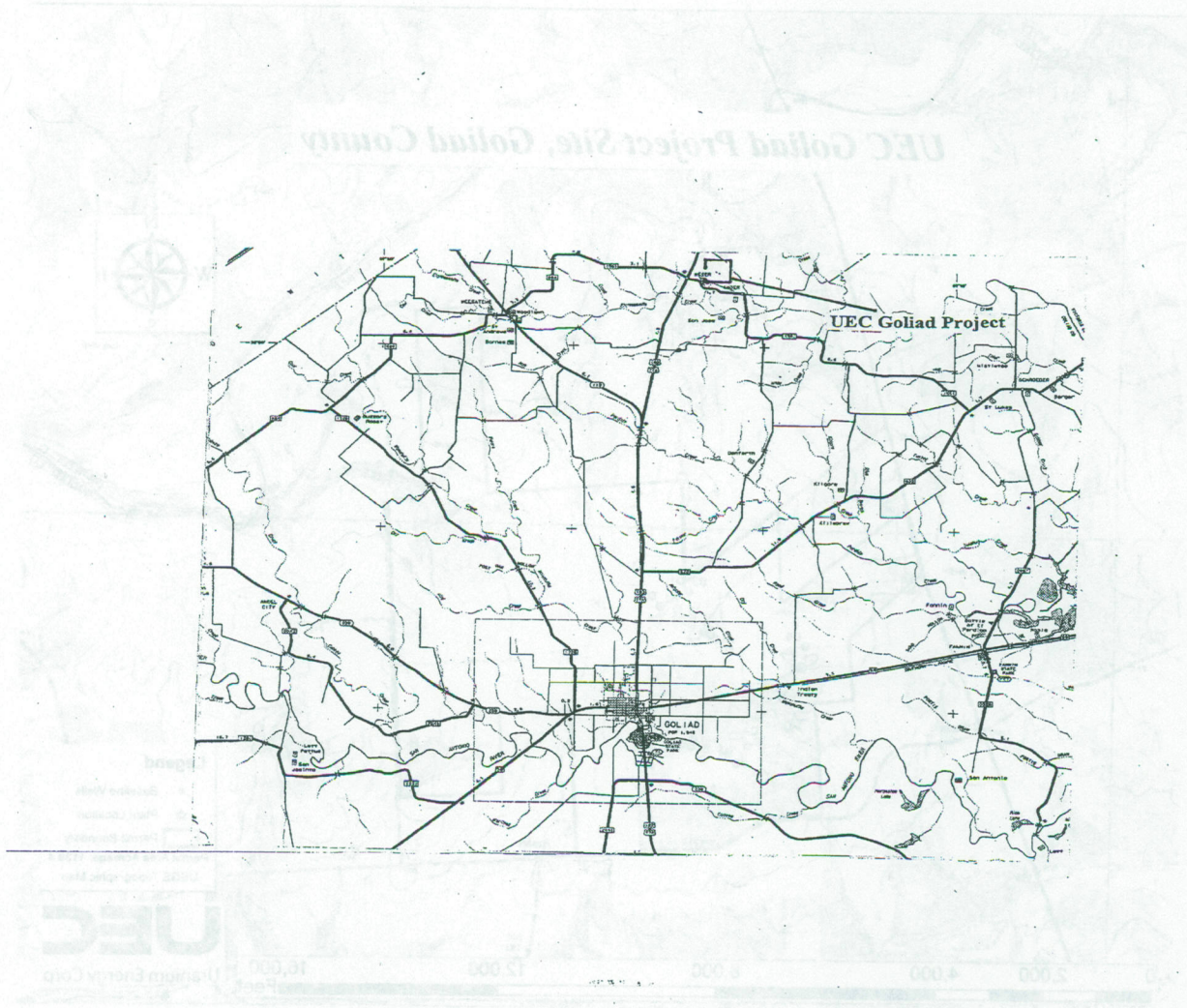
UEC

Permit No. UR03075

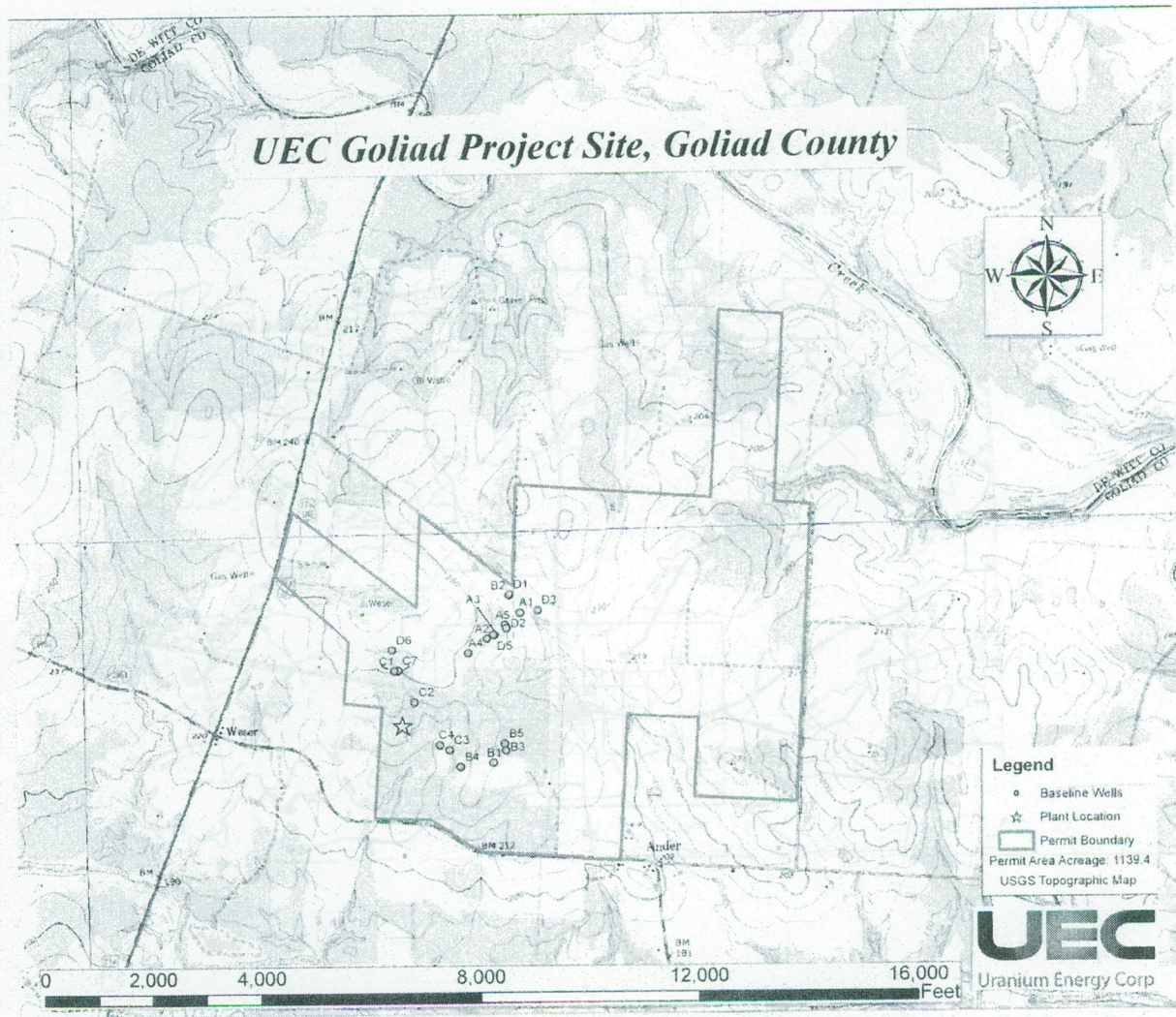
Goliad Project In Situ Uranium Mine

Page 11

ATTACHMENT 1
PERMIT AREA MAP

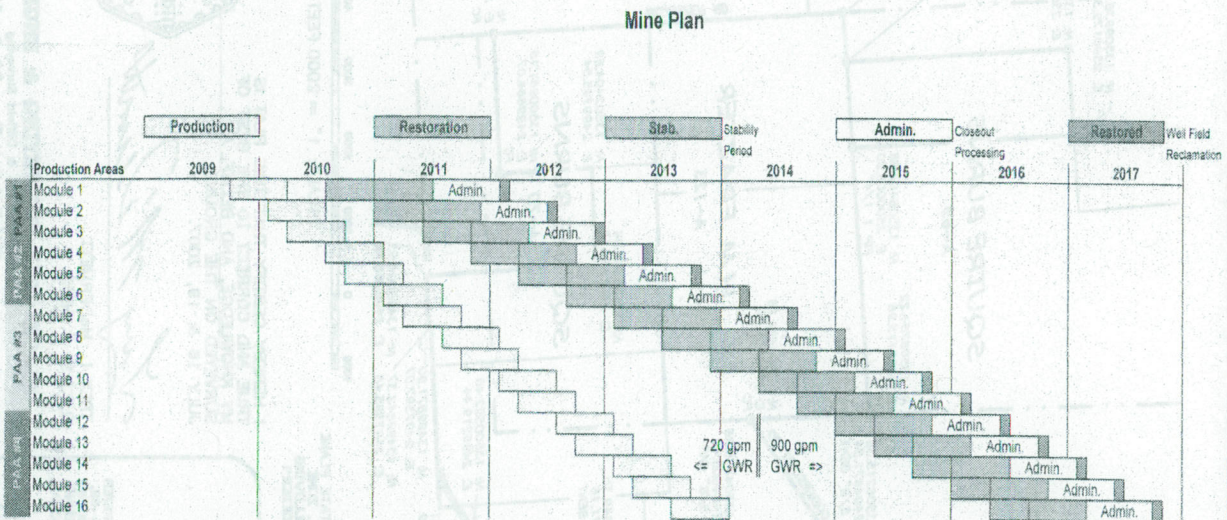


ATTACHMENT 2A
MINE PLAN: MINE AREA MAP



ATTACHMENT 2B

MINE PLAN: ESTIMATED SCHEDULE FOR MINING AND RESTORATION



ATTACHMENT 3

METES AND BOUNDS DESCRIPTION OF THE GOLIAD PROJECT PERMIT AREA

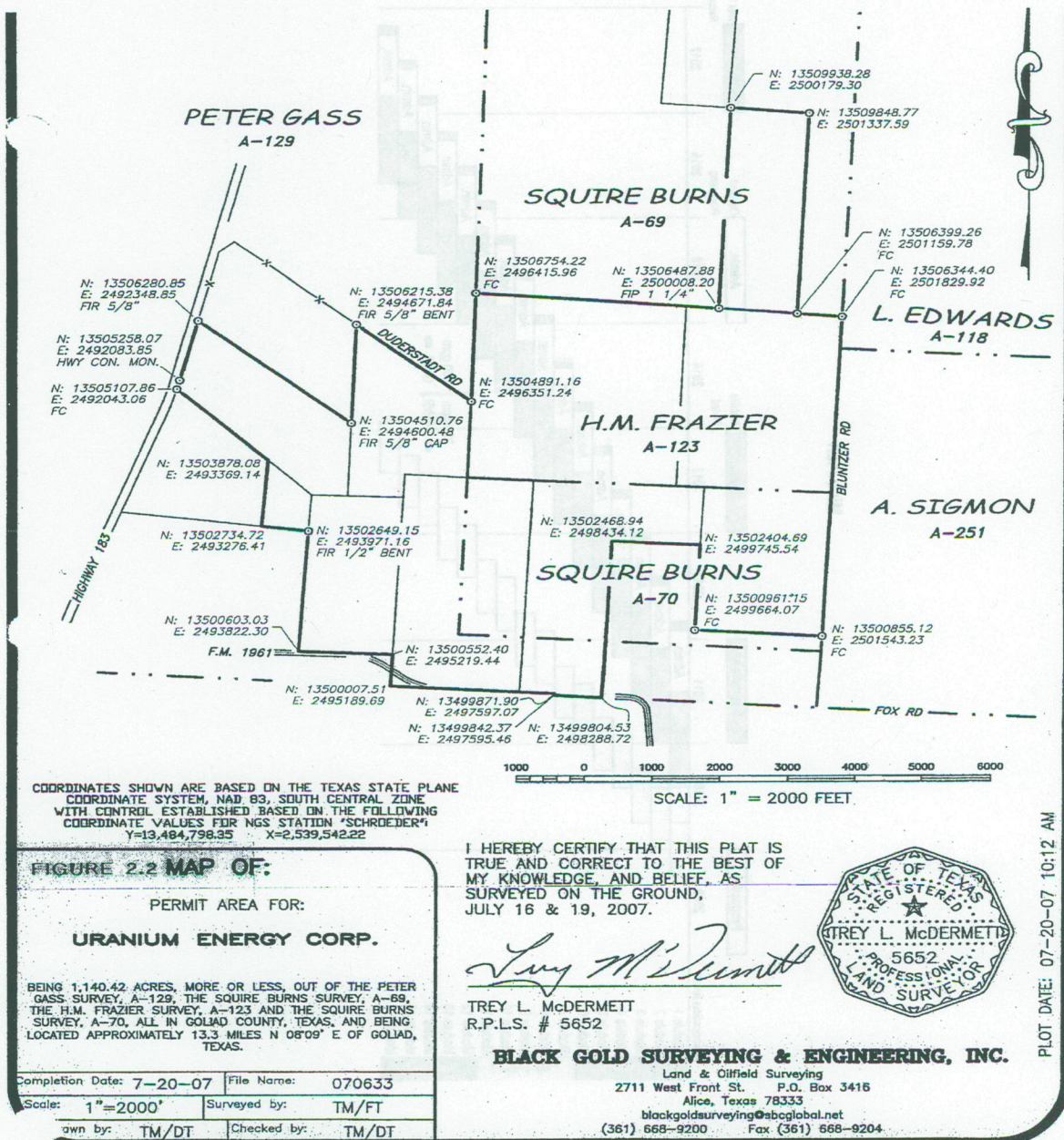


EXHIBIT B

TCEQ DOCKET NO. 2008-1888-UIC

APPLICATION BY	§	BEFORE THE
URANIUM ENERGY CORP	§	
FOR AQUIFER EXEMPTION	§	TEXAS COMMISSION ON
	§	
DESIGNATION	§	ENVIRONMENTAL QUALITY

AQUIFER EXEMPTION ORDER

The Texas Commission on Environmental Quality finds that:

1. On August 9, 2008, Uranium Energy Corp (UEC) submitted an application for a Class III Injection Well Area Permit that includes a request for designation of an exempted aquifer.
2. UEC requests designation of a portion of the Goliad Formation from a depth of 45 to 404 feet, seen on the electric logs in cross sections in figure 6.8 through 6-13 in the Class III Well Area Permit application. The requested exemption extends over an area of approximately 423.8 acres in Goliad County, as illustrated in figure 1.3 in the Class III Well Area Permit application. A map depicting the extent of the exempted aquifer is attached.
3. The groundwater in the portion of the Goliad Formation described in Finding #2 contains an average of 568 mg/l total dissolved solids; therefore the aquifer would be considered an underground source of drinking water if it were not designated as an exempted aquifer.
4. UEC is an *in situ* uranium mining company and requests the designation of the exempted aquifer in conjunction with the use of the injection wells proposed to be permitted under TCEQ Permit No. UR03075 for injection of native groundwater fortified with oxygen or hydrogen peroxide, and bicarbonate ions. UEC cannot inject into the formation without the aquifer exemption.
5. An exempted aquifer is an aquifer or a portion of an aquifer which meets the criteria for fresh water but has been designated an exempted aquifer by the commission after notice and opportunity for hearing.
6. An aquifer or portion of an aquifer may be designated as an exempted aquifer if the following criteria are met:

- (1) It does not currently serve as a source of drinking water for human consumption; and
- (2) Until exempt status is removed according to 30 TAC §331.13(f), it will not in the future serve as a source for human consumption because:
 - (A) It is mineral, hydrocarbon or geothermal energy bearing with production capability;
 - (B) It is situated at a depth or location which makes recovery of water for drinking water purposes economically or technically impractical;
 - (C) It is so contaminated that it would be economically or technologically impractical to render that water fit for human consumption; or,
 - (D) It is located above a Class III well mining area subject to subsidence or catastrophic collapse.
7. UEC has demonstrated that the portion of the Goliad Formation described in Finding #2 does not currently serve as a source of drinking water for human consumption by conducting a data search and a ground investigation that showed that there are no water wells that withdraw water used for human consumption from the Goliad Formation within the designated area.
8. UEC has demonstrated that the portion of the Goliad Formation described in Finding #2 will not serve in the future as a source of drinking water for human consumption because it contains excessive amounts of radium-226 and uranium.
9. UEC has demonstrated with analytical data from water samples and geophysical logs that the portion of the Goliad Formation described in Finding #2 is uranium-bearing with production capability.
10. Notice of the aquifer exemption was issued on June 20, 2008 and June 25, 2008, published in *The Texan Express* and the *Victoria Advocate*, and mailed to the same recipients required for notice of an injection well permit application.
11. The notice described the process for submitting comments and requesting a hearing on the aquifer exemption.
12. The Executive Director of the Texas Commission on Environmental Quality provided a response to all timely, relevant and material, or significant public comments on the application.

Now, therefore, be it ordered by the Texas Commission on Environmental Quality that:

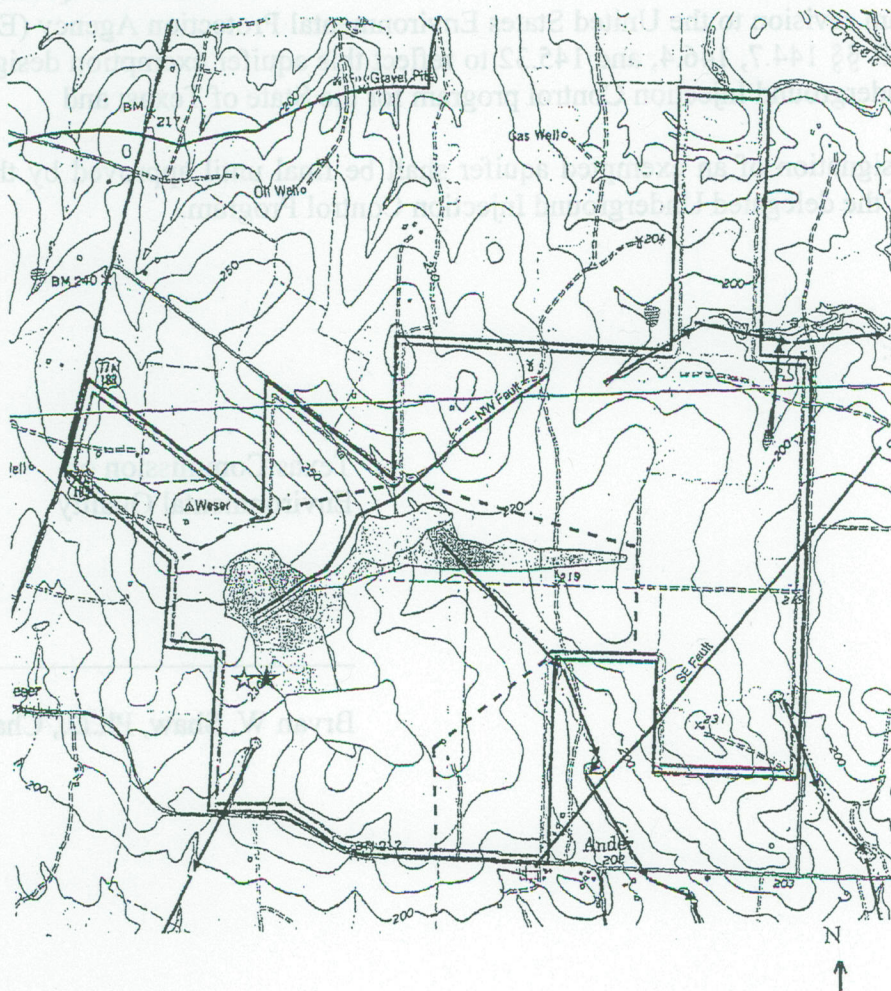
1. The portion of the Goliad Formation described in Finding #2 be designated as an exempted aquifer under 30 TAC § 331.13(c);
2. The Executive Director of the Texas Commission on Environmental Quality submit a program revision to the United States Environmental Protection Agency (EPA) under 40 CFR §§ 144.7, 146.4, and 145.32 to reflect this aquifer exemption designation for the Underground Injection Control program for the State of Texas; and
3. No designation of an exempted aquifer shall be final until approved by the EPA as part of the delegated Underground Injection Control Program.

Issue Date:

Texas Commission on
Environmental Quality

Bryan W. Shaw, Ph.D., Chairman

Aquifer Exemption for Proposed Permit UR03075



— permit area boundary (1139.4 acres)

- - - aquifer exemption boundary (423.8 acres)

The aquifer exemption applies to the Goliad Formation from a depth of 45 feet to 404 feet within the permit area in Goliad County.

EXHIBIT C



**Texas Commission on
Environmental Quality**
Austin, Texas

PRODUCTION AREA AUTHORIZATION PAA1
under Area Permit No. UR03075
Goliad Project In Situ Uranium Mine

AUTHORIZATION to operate Class III
underground injection wells for in situ
recovery of uranium and aquifer restoration

I. Name of Permittee:

A. Name: Uranium Energy Corp

B. Address: 100 East Kleberg, Suite 310
Kingsville, Texas 78363

II. Name of Mine: Goliad Project In Situ Uranium Mine

III. Standard Provisions:

A. Mine Plan

1. Permit Area and Production Area Maps (Attachments 1A and 1B)

Attachment 1A shows the general location of PAA1 within the Goliad Project mine permit and lease areas. Attachment 1B provides a more detailed map of PAA1 bounded by the monitor well ring and with locations of baseline/monitoring wells indicated.

2. Estimated Schedule of Mining and Aquifer Restoration (Attachment 2)

An update of the estimated schedule of the sequence and timing for mining and aquifer restoration shall be provided with each annual report prepared and submitted pursuant to 30 TAC §305.155 and the area permit UR03075 Provision V.A.2.

CONTINUED on Pages 2 through 12

The permittee is authorized to conduct injection activity in accordance with limitations, requirements, and other conditions set forth herein. This authorization is granted subject to the provisions of Area Permit No. UR03075. This authorization will be in effect for ten years from the date of approval of the area permit, or until revocation of the area permit, or amendment of the authorization. If this authorization is appealed and the permittee does not commence any action authorized by this authorization during judicial review, the term will not begin until judicial review is concluded.

ISSUED DATE:

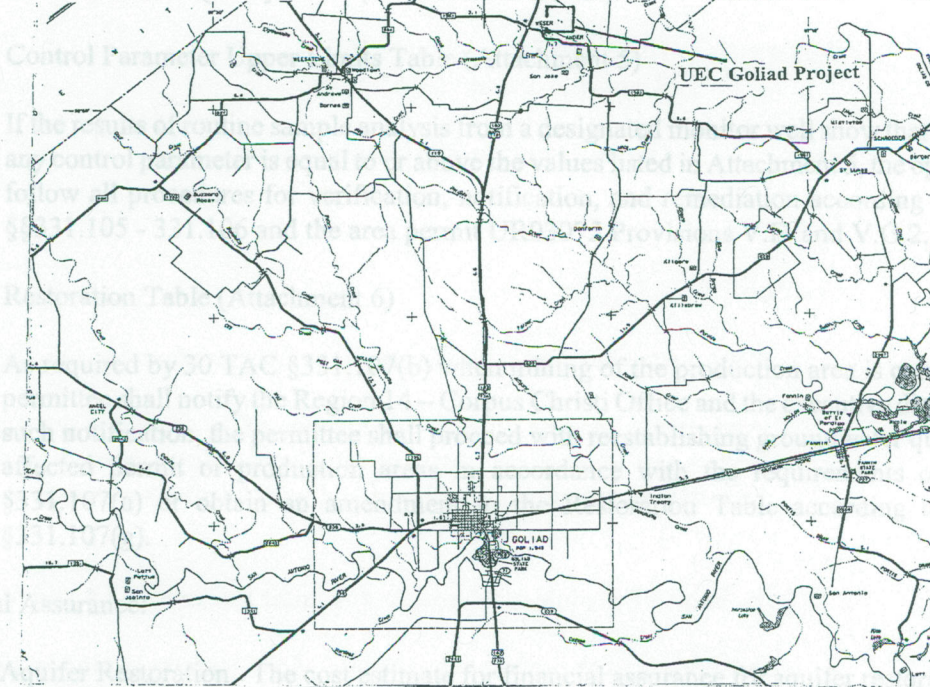
For The Commission

**ATTACHMENT 1A
PERMIT AREA
MAP**

2. Designated Monitor Well and Baseline Well Table (Attachment 3)

Routine water quality sampling according to 30 TAC §§331.105 and the area permit UR03075 Provision V.G. is required for all designated monitor wells and baseline wells.

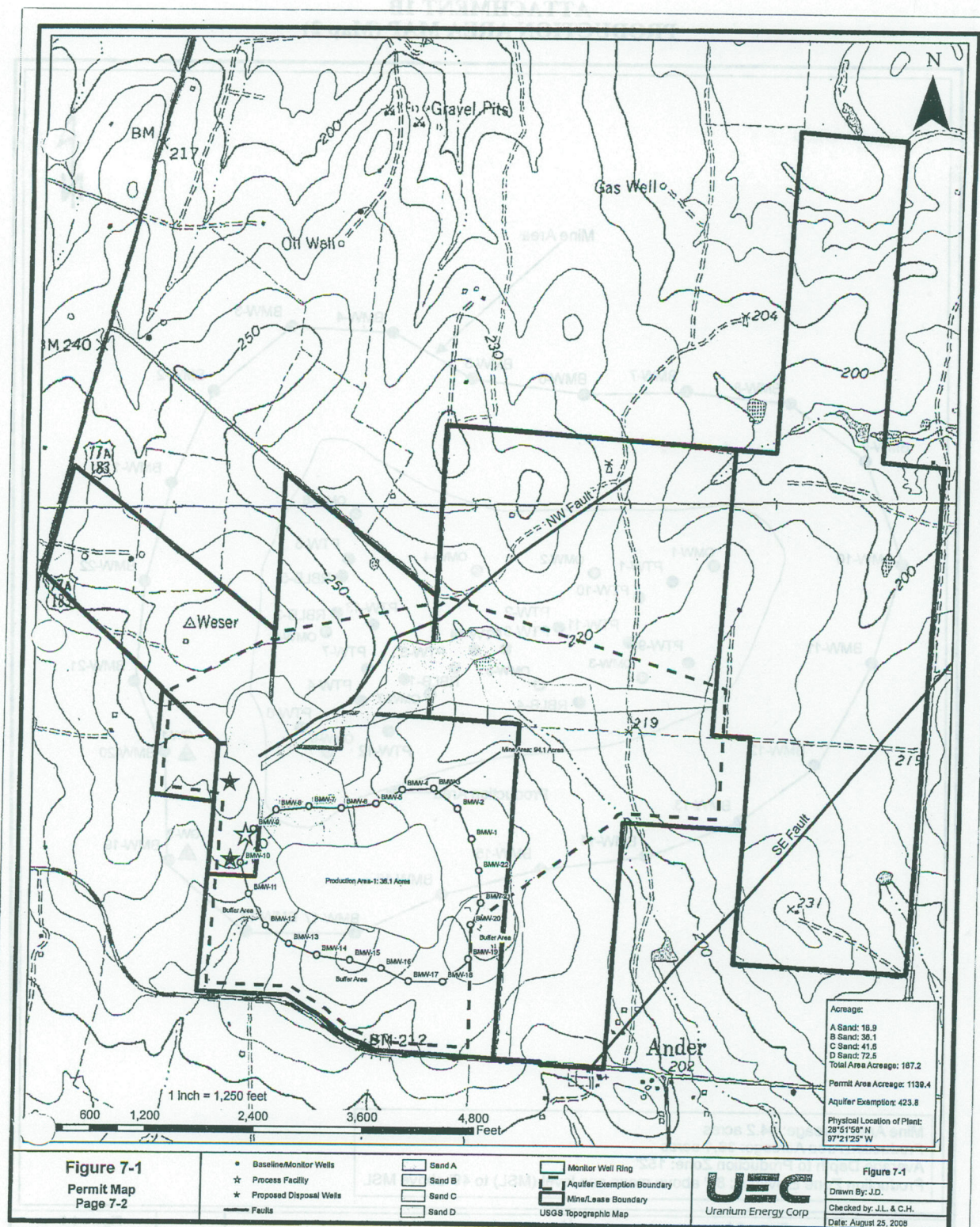
C. Baseline Water Quality Table (Attachment 4)



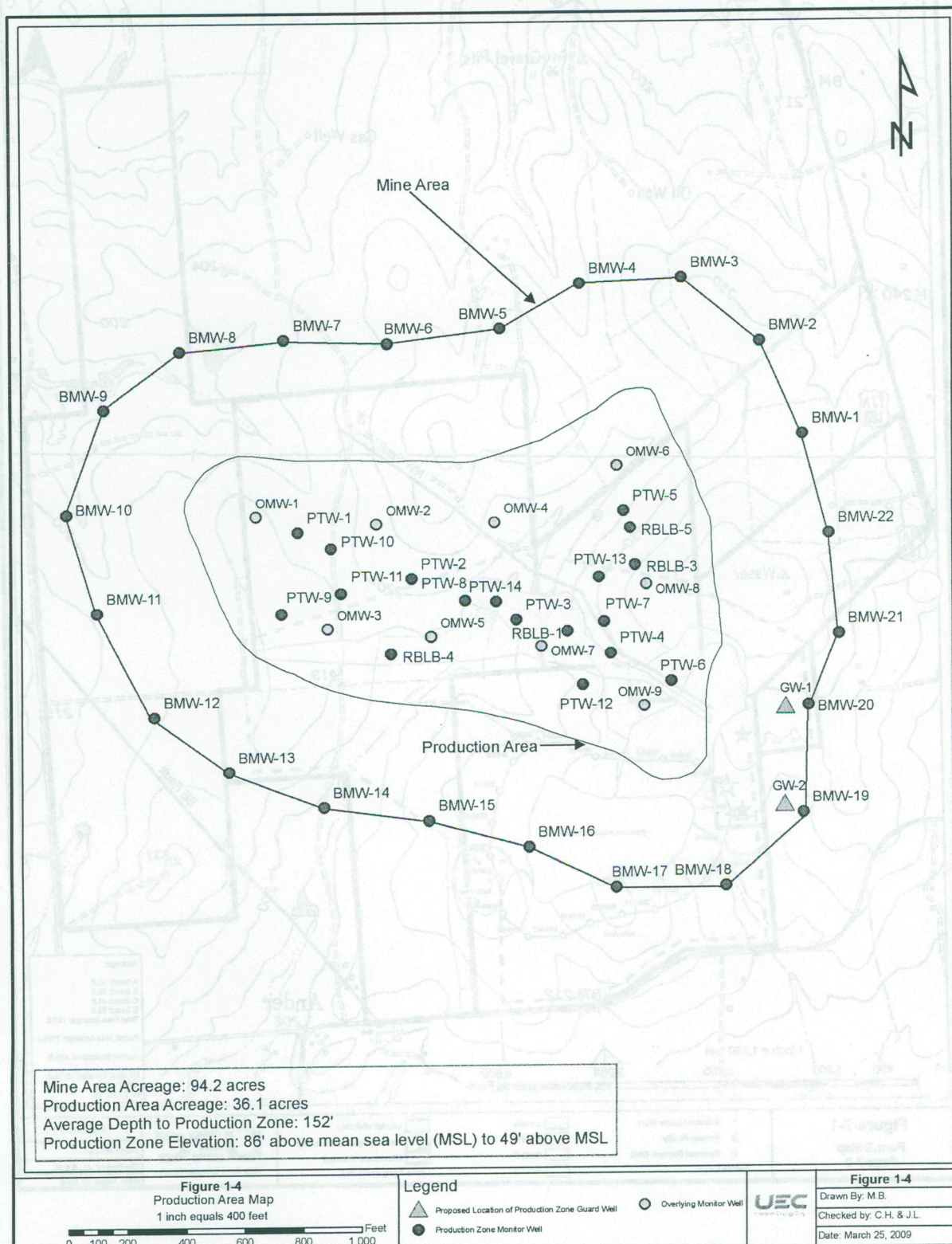
the production area is \$1,934,742 (2009 dollars). The permittee must review and update the cost estimate as provided in 30 TAC §331.143. The permittee shall establish and maintain, in accordance with the permittee's radioactive materials license authorizing source material recovery, financial assurance that includes sufficient funds in an amount that is no less than the current cost estimate to carry out aquifer restoration of Production Area 1 as required in 30 TAC §336.1125.

B. Plugging and Abandonment of Wells. The cost estimate for financial assurance for plugging and abandonment of injection wells, production wells, monitor wells, and baseline wells for the production area is \$173,519 (2009) dollars. The permittee must review and update the cost estimate as provided in 30 TAC §331.143. The permittee shall secure and maintain financial assurance for plugging and abandonment in the amount of the plugging and abandonment cost estimate as required under TCEQ Permit No. UR03075, 30 TAC §§331.142-144, and Subchapter Q of 30 TAC Chapter 37. The financial assurance shall be provided to the Texas Commission on Environmental Quality, Attention: Financial Assurance Unit, Mail Code 164, P.O. Box 13087, Austin, TX 78711-3087 (mailing address) or 12100

ATTACHMENT 1B PRODUCTION AREA MAP (Map 1)



ATTACHMENT 1B PRODUCTION AREA MAP (Map 2)



ATTACHMENT 2

ESTIMATED SCHEDULE OF MINING AND AQUIFER RESTORATION		
PA1	Production	4 th Qtr 2010 through 3 rd Qtr 2011
	Aquifer Restoration	4 th Qtr 2011 through 4 th Qtr 2012
PA2	Production	Middle of 3 rd Qtr 2011 through middle 3 rd Qtr 2012
	Aquifer Restoration	Middle 3 rd Qtr 2012 through 1 st Qtr 2014
PA3	Production	2 nd Qtr 2012 through middle 3 rd Qtr 2013
	Aquifer Restoration	4 th Qtr 2013 through middle 1 st Qtr 2016
PA4	Production	Middle 3 rd 2013 through middle 1 st Qtr 2015
	Aquifer Restoration	Middle 1 st Qtr 2015 through 3 rd Qtr 2017

PA = Production Area

This Mine Plan represents an estimate for the timing for the event listed. The timing of these events is dependent on many factors beyond the control of the permittee including the following:

- 1) timing of the approval of the permits required to mine the various ore bodies;
- 2) the ore bodies response to the lixiviant used for recovery;
- 3) the ultimate economic recovery of uranium from each ore body;
- 4) the sequence of mining the various ore bodies; and
- 5) the response of each ore body to the restoration techniques employed.

ATTACHMENT 3
DESIGNATED MONITOR WELL AND BASELINE WELL TABLE

Monitor Wells					Production Area Baseline Wells (production zone)
Production Zone (monitor well ring)	Non-Production Zone				
	Sand A 1 st Overlying Aquifer	[name] Sand 2 nd Overlying Aquifer	[name] Sand 3 rd Overlying Aquifer	[name] Sand 4 th Overlying Aquifer	
BMW-1	OMW-1	NA	NA	NA	PTW-1
BMW-2	OMW-2				PTW-2
BMW-3	OMW-3				PTW-3
BMW-4	OMW-4				PTW-4
BMW-5	OMW-5				PTW-5
BMW-6	OMW-6				PTW-6
BMW-7	OMW-7				PTW-7
BMW-8	OMW-8				PTW-8
BMW-9	OMW-9				PTW-9
BMW-10					PTW-10
BMW-11					PTW-11
BMW-12					PTW-12
BMW-13					PTW-13
BMW-14					PTW-14
BMW-15					RBLB-1
BMW-16					RBLB-3
BMW-17					RBLB-4
BMW-18					RBLB-5
BMW-19					
BMW-20					
BMW-21					
BMW-22					
GW-1					
GW-2					

**ATTACHMENT 4A
BASELINE WATER QUALITY TABLE
GOLIAD PROJECT SAND B PRODUCTION ZONE**

PRODUCTION ZONE									WELL ID BY AREA*	
Parameter	Units	Mine Area**			Production Area				Production Zone	
		Low	Ave.	High	Low	Ave.	High		Mine	Prod.
1	Calcium	mg/l	82	97	110	81	96	110	BMW-1	PTW-1
2	Magnesium	mg/l	14.5	17.7	21.2	10.9	17.8	20.3	BMW-2	PTW-2
3	Sodium	mg/l	83	102	120	82	97	117	BMW-3	PTW-3
4	Potassium	mg/l	2.92	4.31	7.81	2.5	6.4	16.5	BMW-4	PTW-4
5	Carbonate	mg/l	0	0	0	0	0	3	BMW-5	PTW-5
6	Bicarbonate	mg/l	268	311	350	251	308	368	BMW-6	PTW-6
7	Sulfate	mg/l	0	50	89	1.5	43.2	82	BMW-7	PTW-7
8	Chloride	mg/l	147	164	185	150	164	180	BMW-8	PTW-8
9	Fluoride	mg/l	<0.5	0.57	0.71	<0.50	0.58	0.80	BMW-9	PTW-9
10	Nitrate-N	mg/l	<0.01	#	0.05	<0.01	0.14	1.73	BMW-10	PTW-10
11	Silica	mg/l	12.3	26.2	34.9	<0.05	29.8	37.5	BMW-11	PTW-11
12	pH	std. units	6.97	7.40	8.18	7.18	7.48	7.96	BMW-12	PTW-12
13	TDS	mg/l	260	595	810	390	586	698	BMW-13	PTW-13
14	Conductivity	µmho/cm	953	1082	1140	950	1084	1190	BMW-14	PTW-14
15	Alkalinity	mg/l	224	256	287	206	253	302	BMW-15	RBLB-1
16	Ammonia-N	mg/l	<0.1	0.12	0.34	<0.05	#	0.3	BMW-16	RBLB-3
17	Arsenic	mg/l	<2E-3	0.009	0.069	<0.01	0.011	0.030	BMW-17	RBLB-4
18	Cadmium	mg/l	<1E-3	##	##	<0.001	<0.007	<0.01	BMW-18	RBLB-5
19	Iron	mg/l	<3E-2	0.095	0.776	<0.01	0.067	0.322	BMW-19	
20	Lead	mg/l	<2E-3	##	##	<0.002	#	0.004	BMW-20	
21	Manganese	mg/l	<0.01	0.013	0.050	<0.010	0.027	0.026	BMW-21	
22	Mercury	mg/l	<1E-4	##	##	<0.0001	##	##	BMW-22	
23	Molybdenum	mg/l	<0.01	0.032	0.481	<0.01	0.185	0.136		
24	Selenium	mg/l	<3E-3	6E-3	6E-3	<0.003	+	0.002		
25	Uranium	mg/l	<1E-3	0.009	0.188	<0.003	0.50	0.804		
26	Radium-226	pCi/l	0.1	13.7	48	10.0	385.1	2000.0		

*List the identification numbers of wells used to obtain the high and low values for each parameter

**Monitor Wells

Only one value quantified; different detection limits for each of 3 sampling rounds.

##No quantified values

+Only 4 quantified values; different detection limits for each of 3 sampling rounds

**ATTACHMENT 4B
BASELINE WATER QUALITY TABLE
GOLIAD PROJECT SAND A NONPRODUCTION ZONE**

Parameter	Units	Non-Production Zone			Well ID for Non-Production Zone
		Low	Ave.	High	
1 Calcium	mg/l	101	181	310	OMW-1
2 Magnesium	mg/l	9.2	21.2	40.5	OMW-2
3 Sodium	mg/l	83	105	133	OMW-3
4 Potassium	mg/l	0	1.7	4.4	OMW-4
5 Carbonate	mg/l	0	0	0	OMW-5
6 Bicarbonate	mg/l	246	315	370	OMW-6
7 Sulfate	mg/l	36	103	181	OMW-7
8 Chloride	mg/l	122	264	648	OMW-8
9 Fluoride	mg/l	0.32	0.46	0.63	OMW-9
10 Nitrate-N	mg/l	1.90	6.16	10.5	
11 Silica	mg/l	16.1	33.8	51.2	
12 pH	std. units	6.70	7.14	7.44	
13 TDS	mg/l	403	923	2350	
14 Conductivity	µmhos	1040	1549	2520	
15 Alkalinity	mg/l	202	258	303	
16 Ammonia-N	mg/l	<0.1	0.13	0.47	
17 Arsenic	mg/l	<0.01	0.013	0.031	
18 Cadmium	mg/l	<1E-3	#	#	# No quantified values.
19 Iron	mg/l	<3E-2	0.085	0.890	
20 Lead	mg/l	<2E-3	##	3E-3	##Only two quantified values; different detection limits for 3 sampling rounds.
21 Manganese	mg/l	<3E-3	0.026	0.09	
22 Mercury	mg/l	<1E-4	#	#	
23 Molybdenum	mg/l	<1E-2	##	0.024	
24 Selenium	mg/l	<3E-3	0.011	0.013	
25 Uranium	mg/l	<3E-3	0.01	0.016	
26 Radium-226	pCi/l	0.2	1.4	6	

ATTACHMENT 5
CONTROL PARAMETER UPPER LIMITS TABLE

Production Zone	
Control Parameter	Sand B
Chloride, mg/l	231
Conductivity, umhos/cm	1,425

Non-Production Zone	
Control Parameter	Sand A 1st Overlying Aquifer
Chloride, mg/l	810
Conductivity, umhos/cm	3,150

**ATTACHMENT 6
 RESTORATION TABLE**

<u>Parameter</u>	<u>Unit</u>	<u>Concentration</u>
Calcium	mg/l	96
Magnesium	mg/l	17.8
Sodium	mg/l	97
Potassium	mg/l	6.4
Carbonate	mg/l	0.0
Bicarbonate	mg/l	308
Sulfate	mg/l	43.2
Chloride	mg/l	164
Nitrate-N	mg/l	0.14
Fluoride	mg/l	0.58
Silica	mg/l	29.8
TDS	mg/l	587
Conductivity	µmhos/cm	1084
Alkalinity	mg/l as CaCO ₃	253
pH	Std. Units	7.18 to 7.96
Arsenic	mg/l	0.010
Iron	mg/l	0.68
Manganese	mg/l	0.027
Molybdenum	mg/l	0.185
Selenium	mg/l	0.007
Uranium	mg/l	0.050
Radium ²²⁶	pCi/l	391